

Price list

EN - € - 03/2014



FST GmbH Filtrations-Separations-Technik







Sales office:

Im Teelbruch 106 - 45219 Essen - Germany

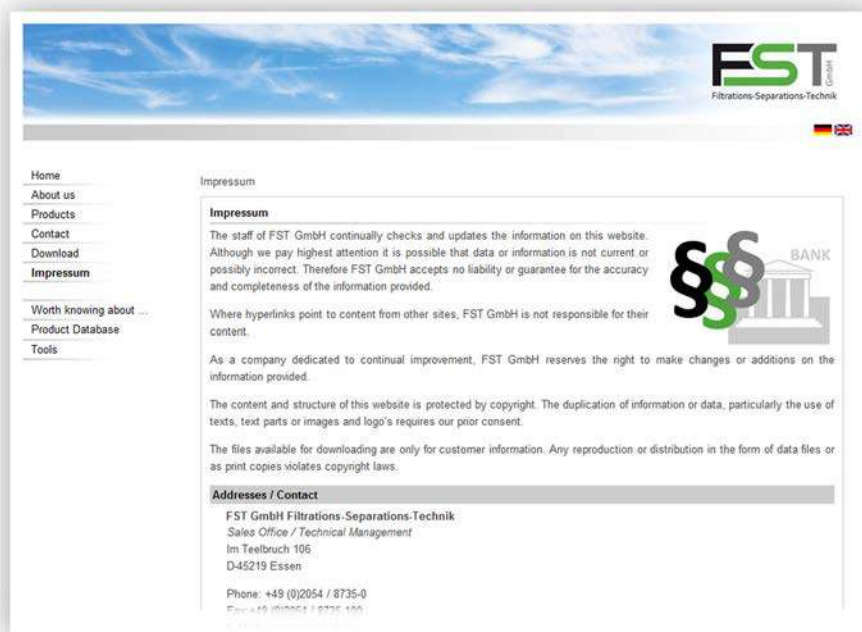
Head office / Production / Logistics:

Weierdamm 17 - 57250 Netphen-Deuz - Germany

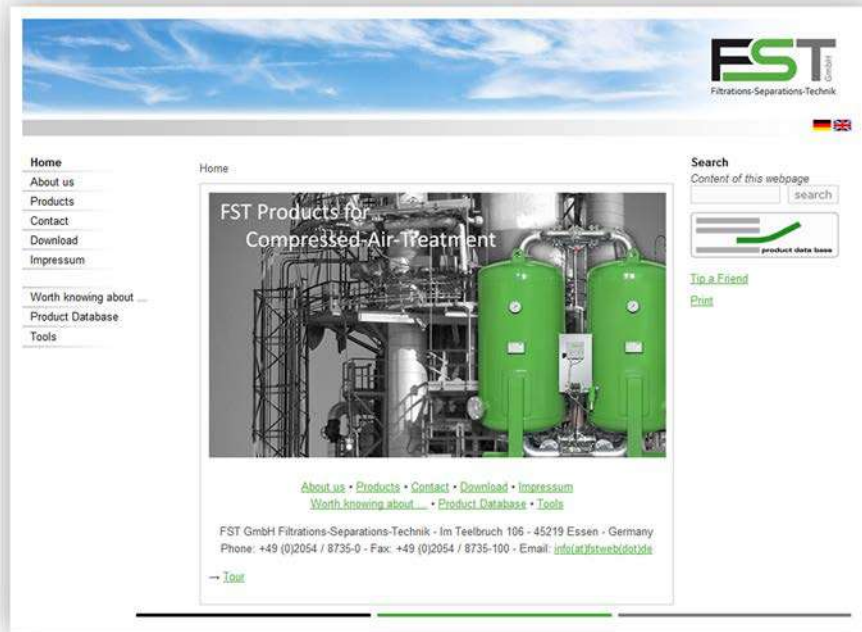
-  +49 (0)2054 / 8735-0
-  +49 (0)2054 / 8735-100
-  info@fstweb.de
-  www.fstweb.de

This price list replaces all other previous price lists. Technical alterations are subject to change without notice.

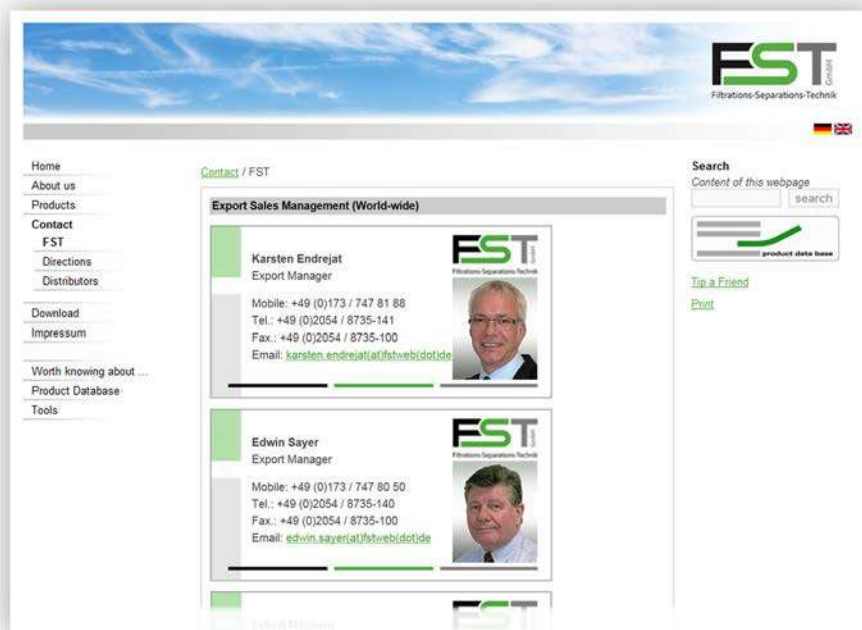
General Terms of Sale and Delivery of FST GmbH apply, which are available in printed form at the end of this price list. Alternatively, they can be downloaded in electronic format from our web site → www.fstweb.de → „Impressum“



Information about FST GmbH as well as brochures, product data sheets, manuals and lots of other useful information about the products, shown in this price list, are available on our web site → www.fstweb.de




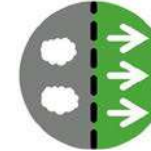
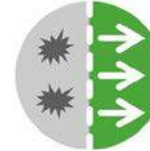
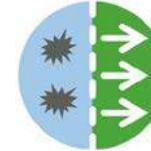






Contact information for your specific request can be obtained from our website → www.fstweb.de → „Contact“ → „FST“



Quick finder




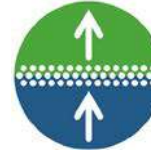


Filtration

Water separator	Coalescing filter	Dust filter	Activated carbon filter	Sterile filter	Steam filter
					
16 bar: Page 6 and 56 50 bar: Page 14 100/350 bar: Page 20	16 bar: Page 8 50 bar: Page 16 100/350 bar: Page 22	16 bar: Page 12 50 bar: Page 18 100/350 bar: Page 24	16 bar: Page 10 50 bar: Page 16 100/350 bar: Page 22	16 bar: Page 28 Ventilation: Page 32	16 bar: Page 30
Filter combinations	Filter accessories	Elements for FST filters	Elements for Competitors' filters		
					
Page 34	Page 36-39	Page 40	Page 42-51		

Cooling

Cooler air-cooled	Cooler water-cooled
	
12/16 bar: Page 52	12/16 bar: Page 54

Drying

Refrigeration dryer	Adsorption dryer (heatless regeneration)	Adsorption dryer (heat regeneration)	Point of use dryer	Membrane dryer	Dryer accessories
					
13/14/16 bar: Page 58-61	11/16 bar: Page 66 50-350 bar: Page 68	11 bar: Page 70-73	16 bar: Page 64	8/12 bar: Page 62	Page 74-77

Oil vapour adsorption

Activated carbon oil vapour adsorber	Breathing air systems
	
11/16 bar: Page 78-81 50/100/250/350 bar: Page 82	16 bar: Page 84

Condensate




Condensate drains	Oil water separators	Accessories condensate technology
		
Vacuum/16/50/100/350 bar: Page 86-89	Page 91-92	Page 90

Table of content

Filtration	6
Water separator up to 16 bar – FCA..WS.. , FWS..W.. series	6
Compressed air filter up to 16 bar – Coalescing filter – FCA.. , FWS.. series.....	8
Compressed air filter up to 16 bar – Activated carbon filter – FCA..A.. , FWS..A.. series.....	10
Compressed air filter up to 16 bar – Dust filter – FCA..S.. , FWS..S.. series.....	12
Water separator up to 50 bar – FCA../50WS.. , FWS../50W.. series	14
Compressed air filter up to 50 bar – Coalescing and activated carbon filter – FCA../50.. , FWS../50.. series.....	16
Compressed air filter up to 50 bar – Dust filter – FCA../50..S.. , FWS../50..S.. series.....	18
Water separator up to 350 bar – FMA..W.. , FMS..W.. series.....	20
Compressed air filter up to 350 bar – Coalescing and activated carbon filter – FMA.. , FMS.. series.....	22
Compressed air filter up to 350 bar – Dust filter – FMA..S.. , FMS..S.. series	24
Process filter up to 16 bar – Industrial grades – FWP.. series.....	26
Process filter up to 16 bar – Sterile filter – FWP..STPL.. , FWP..SMPL.. series	28
Process filter up to 16 bar – Steam filter – FWP..D.. series	30
Process filter – Sterile vent filter – FWPV..STPL.. series.....	32
Filter combinations.....	34
Filter accessories – FA.. series.....	36
Filter elements for FST filter housings	40
Filter elements for ZANDER filter housings.....	42
Filter elements for DOMNICK-HUNTER filter housings.....	44
Filter elements for ATLAS-COPCO, BEKO, HANKISON filter housings	46
Filter elements for HIROSS, OMEGA AIR, OMI filter housings	47
Filter elements for ULTRAFILTER/DONALDSON filter housings	48
Cooling.....	52
Cooler up to 16 bar – air-cooled – HAO series.....	52
Cooler up to 16 bar – water-cooled – HWO series	54
Water separator up to 16 bar – FCA..CKL.. series	56
Drying	58
Refrigeration dryer up to 16 bar – DFX.. , DFE.. series.....	58
Refrigeration dryer up to 16 bar – DFLO series	60
Membrane dryer up to 12,5 bar – DM-SWC.. , DM-FP.. series	62
Adsorption dryer up to 16 bar – Point of use dryer – FCA..CMS.. series	64
Adsorption dryer up to 16 bar – heatless regeneration – DPS.. series	66
Adsorption dryer up to 420 bar – heatless regeneration – DHW.. series	68
Adsorption dryer up to 11 bar – heat regeneration – DTS..V.. series	70
Adsorption dryer up to 11 bar – heat regeneration – DTS..BVL.. series	72
Dryer accessories – DA.. series	74
Oil vapour adsorption	78
Activated carbon oil vapour adsorber up to 16 bar – DSS..A series.....	78
Activated carbon oil vapour adsorber up to 11 bar – DSS..A series.....	80
Activated carbon oil vapour adsorber up to 350 bar – DSW..A series	82
Breathing air systems.....	84
Breathing air systems up to 16 bar – heatless regeneration – DPS..Bl.. , DPS..BM.. series	84
Condensate	86
Condensate drains – CDM.. , CDF.. series	86
Condensate drain for vacuum – CDMV.. series	87
Electronic condensate drain up to 16 bar – CDE..L series.....	88
Electronic condensate drain up to 350 bar – CDE..T series	89
Condensate drains installation kit – CAK series	90
Oil water separator – CSW.. series	91
Oil water separator – CSD.. series.....	92
General Terms of Sale and Delivery	94

Filtration

Water separator up to 16 bar – FCA..WS.., FWS..W.. series



Scope of supply

Ready-to-use water separator including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing (FCA) or protection foil (FWS) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels (FWS). These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Filter housing including water separator insert ; plug screws ; automatic condensate drain ; flow direction from outside to inside (FCA) or inside to outside (FWS)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity	Price	Prod.-grp.
FCA 30 W S F	50 m ³ /h	16 bar	G 3/8		EFST 30 W	1	215 €	01
FCA 50 W S F	70 m ³ /h	16 bar	G 1/2		EFST 30 W	1	230 €	01
FCA 70 W S F	100 m ³ /h	16 bar	G 1/2		EFST 30 W	1	230 €	01
FCA 90 W S F	160 m ³ /h	16 bar	G 3/4		EFST 90 W	1	350 €	01
FCA 95 W S F	160 m ³ /h	16 bar	G 1		EFST 90 W	1	355 €	01
FCA 110 W S F	330 m ³ /h	16 bar	G 1		EFST 90 W	1	355 €	01
FCA 115 W S F	330 m ³ /h	16 bar	G 1 ½		EFST 90 W	1	420 €	01
FCA 120 W S F	500 m ³ /h	16 bar	G 1 ½		EFST 120 W	1	530 €	01
FCA 130 W S F	800 m ³ /h	16 bar	G 1 ½		EFST 120 W	1	530 €	01
FCA 140 W S F	1.000 m ³ /h	16 bar	G 2		EFST 140 W	1	990 €	01
FCA 170 W S F	1.500 m ³ /h	16 bar	G 2		EFST 140 W	1	990 €	01
FCA 180 W S F	2.000 m ³ /h	16 bar	G 2 ½		EFST 180 W	1	1.750 €	01
FCA 185 W S F	2.000 m ³ /h	16 bar	G 3		EFST 180 W	1	1.790 €	01
FCA 190 W S F	2.500 m ³ /h	16 bar	G 3		EFST 180 W	1	1.790 €	01
FWS 170 W F	1.500 m ³ /h	16 bar	DN 80		---	---	1.995 €	02
FWS 190 W F	2.500 m ³ /h	16 bar	DN 80		---	---	1.995 €	02
FWS 200 W F	3.000 m ³ /h	16 bar	DN 100		---	---	3.680 €	02
FWS 300 W F	4.500 m ³ /h	16 bar	DN 100		---	---	3.680 €	02
FWS 400 W F	6.000 m ³ /h	16 bar	DN 150		---	---	5.240 €	02
FWS 600 W F	9.000 m ³ /h	16 bar	DN 150		---	---	7.195 €	02
FWS 800 W F	12.000 m ³ /h	16 bar	DN 200		---	---	8.260 €	02
FWS 1000 W F	15.000 m ³ /h	16 bar	DN 200		---	---	10.220 €	02
FWS 1200 W F	18.000 m ³ /h	16 bar	DN 250		---	---	11.295 €	02
FWS 1600 W F	24.000 m ³ /h	16 bar	DN 250		---	---	14.615 €	02
FWS 2000 W F	30.000 m ³ /h	16 bar	DN 300		---	---	16.740 €	02

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure



Water separators for higher volume flows or bigger connection sizes are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

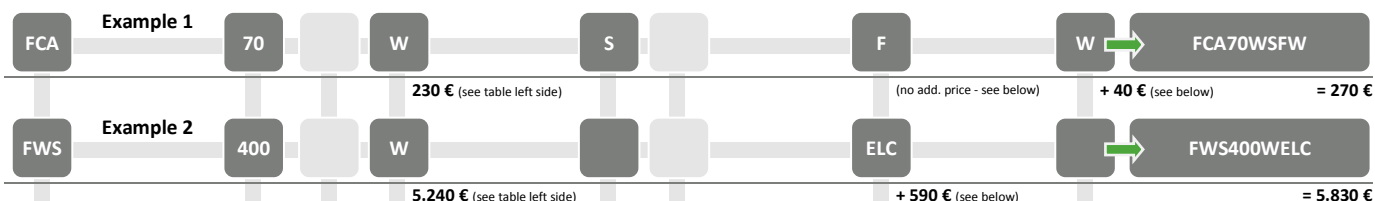
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:










→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Water separator up to 16 bar – FCA..W.., FWS..W.. series

Options, order examples and price calculations



Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
FCA Threaded filter (aluminium) 	Size (see table left side)		W Water separator insert  FCA series	S FCA series Outside → Inside	Plug screws (no indication) 	F Automatic condensate drain 	W Wall mounting 
FWS Flanged filter (steel) 		W Water separator insert  FWS series		S FWS series Inside → Outside		ELC Elec. drain sized for aftercooler  FCA30-95 140 € FCA110-120 260 € FCA130-140 300 € FCA170-190 390 € FWS170-190 FWS200-600 590 € FWS800-2000 1290 € Prod.-grp. 53	W Wall mounting  FCA20-70 40 € FCA90-130 54 € Prod.-grp. 08

Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FCA 30	183 mm	87 mm	80 mm	1,0 kg	FWS 170	1115 mm	440 mm	285 mm	47 kg
FCA 50	183 mm	87 mm	80 mm	1,0 kg	FWS 190	1115 mm	440 mm	285 mm	47 kg
FCA 70	183 mm	87 mm	80 mm	1,0 kg	FWS 200	1298 mm	550 mm	405 mm	96 kg
FCA 90	289 mm	130 mm	122 mm	3,9 kg	FWS 300	1298 mm	550 mm	405 mm	96 kg
FCA 95	289 mm	130 mm	122 mm	3,9 kg	FWS 400	1503 mm	640 mm	460 mm	136 kg
FCA 110	289 mm	130 mm	122 mm	3,9 kg	FWS 600	1531 mm	800 mm	580 mm	205 kg
FCA 115	289 mm	130 mm	122 mm	3,9 kg	FWS 800	1531 mm	800 mm	580 mm	208 kg
FCA 120	487 mm	130 mm	122 mm	4,7 kg	FWS 1000	1590 mm	840 mm	715 mm	342 kg
FCA 130	487 mm	130 mm	122 mm	4,7 kg	FWS 1200	1695 mm	940 mm	715 mm	450 kg
FCA 140	670 mm	164 mm	146 mm	7,8 kg	FWS 1600	1740 mm	940 mm	840 mm	537 kg
FCA 170	670 mm	164 mm	146 mm	7,8 kg	FWS 2000	1790 mm	940 mm	840 mm	558 kg
FCA 180	897 mm	250 mm	225 mm	22,9 kg					
FCA 185	897 mm	250 mm	225 mm	22,9 kg					
FCA 190	897 mm	250 mm	225 mm	22,9 kg					

Filtration

Compressed air filter up to 16 bar – Coalescing filter – FCA.. , FWS.. series



Scope of supply

Ready-to-use filter including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing (FCA) or protection foil (FWS) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels (FWS). These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Filter housing including filter element(s) ; plug screws ; automatic condensate drain ; flow direction from inside to outside

			Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity
FCA	20	■ F	30 m ³ /h	16 bar	G 1/4	EFST	25 ■	1
FCA	25	■ F	35 m ³ /h	16 bar	G 3/8	EFST	25 ■	1
FCA	30	■ F	50 m ³ /h	16 bar	G 3/8	EFST	30 ■	1
FCA	50	■ F	70 m ³ /h	16 bar	G 1/2	EFST	50 ■	1
FCA	70	■ F	100 m ³ /h	16 bar	G 1/2	EFST	70 ■	1
FCA	90	■ F	160 m ³ /h	16 bar	G 3/4	EFST	90 ■	1
FCA	95	■ F	160 m ³ /h	16 bar	G 1	EFST	90 ■	1
FCA	110	■ F	330 m ³ /h	16 bar	G 1	EFST	110 ■	1
FCA	115	■ F	330 m ³ /h	16 bar	G 1 ½	EFST	110 ■	1
FCA	120	■ F	500 m ³ /h	16 bar	G 1 ½	EFST	120 ■	1
FCA	130	■ F	800 m ³ /h	16 bar	G 1 ½	EFST	130 ■	1
FCA	140	■ F	1.000 m ³ /h	16 bar	G 2	EFST	140 ■	1
FCA	170	■ F	1.500 m ³ /h	16 bar	G 2	EFST	170 ■	1
FCA	180	■ F	2.000 m ³ /h	16 bar	G 2 ½	EFST	180 ■	1
FCA	185	■ F	2.000 m ³ /h	16 bar	G 3	EFST	180 ■	1
FCA	190	■ F	2.500 m ³ /h	16 bar	G 3	EFST	190 ■	1
<hr/>								
FWS	170	■ F	1.500 m ³ /h	16 bar	DN 80	EFST	170 ■	1
FWS	190	■ F	2.500 m ³ /h	16 bar	DN 80	EFST	190 ■	1
FWS	200	■ F	3.000 m ³ /h	16 bar	DN 100	EFST	170 ■	2
FWS	300	■ F	4.500 m ³ /h	16 bar	DN 100	EFST	170 ■	3
FWS	400	■ F	6.000 m ³ /h	16 bar	DN 150	EFST	170 ■	4
FWS	600	■ F	9.000 m ³ /h	16 bar	DN 150	EFST	170 ■	6
FWS	800	■ F	12.000 m ³ /h	16 bar	DN 200	EFST	170 ■	8
FWS	1000	■ F	15.000 m ³ /h	16 bar	DN 200	EFST	170 ■	10
FWS	1200	■ F	18.000 m ³ /h	16 bar	DN 250	EFST	170 ■	12
FWS	1600	■ F	24.000 m ³ /h	16 bar	DN 250	EFST	170 ■	16
FWS	2000	■ F	30.000 m ³ /h	16 bar	DN 300	EFST	170 ■	20



*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure



Coalescing filter for higher volume flows or bigger connection sizes are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

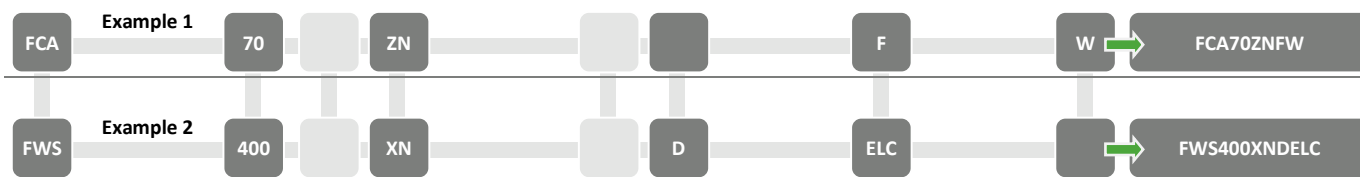
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:















→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Compressed air filter up to 16 bar – Coalescing filter – FCA.. , FWS.. series

Options, order examples and price calculations



Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
FCA Threaded filter (aluminium) 	Size (see table left side)	[]	V Coarse filter 99,99% (3µ) 	Inside → Outside	Plug screws (no indication) 	F Automatic condensate drain 	Pipe mounting 
FWS Flanged filter (steel) 		ZN General purpose 99,9999% (1µ) 0,5 mg/m³ 	D Differential pressure gauge  FCA30-190 FWS170-2000 Prod.-grp. 08		ELC Elec. drain sized for aftercooler  FCA20-95 FCA110-120 FCA130-140 FCA170-190 FWS170-190 FWS200-600 FWS800-2000 Prod.-grp. 53	W Wall mounting  FCA20-70 FCA90-130 Prod.-grp. 08	
		XN Fine filter 99,9999% (0,01µ) 0,01 mg/m³ 	DC Differential pressure gauge with alarm contact  FCA30-190 FWS170-2000 Prod.-grp. 08		ELF Elec. drain sized for filter  FCA20-190 FWS170-190 FWS200-300 FWS400-600 FWS800-2000 Prod.-grp. 53		
		XXN Super fine filter 99,9999% (0,01µ) 0,001 mg/m³ 					

Sizes and weights (housing only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FCA 20	136 mm	61 mm	60 mm	0,5 kg	FWS 170	1115 mm	440 mm	285 mm	46 kg
FCA 25	136 mm	61 mm	60 mm	0,5 kg	FWS 190	1115 mm	440 mm	285 mm	46 kg
FCA 30	183 mm	87 mm	80 mm	1,0 kg	FWS 200	1298 mm	550 mm	405 mm	105 kg
FCA 50	183 mm	87 mm	80 mm	1,0 kg	FWS 300	1298 mm	550 mm	405 mm	105 kg
FCA 70	253 mm	87 mm	80 mm	1,1 kg	FWS 400	1503 mm	640 mm	460 mm	136 kg
FCA 90	289 mm	130 mm	122 mm	3,9 kg	FWS 600	1531 mm	800 mm	580 mm	205 kg
FCA 95	289 mm	130 mm	122 mm	3,8 kg	FWS 800	1531 mm	800 mm	580 mm	208 kg
FCA 110	387 mm	130 mm	122 mm	4,3 kg	FWS 1000	1590 mm	840 mm	715 mm	342 kg
FCA 115	387 mm	130 mm	122 mm	4,1 kg	FWS 1200	1695 mm	940 mm	715 mm	450 kg
FCA 120	487 mm	130 mm	122 mm	4,7 kg	FWS 1600	1740 mm	940 mm	840 mm	537 kg
FCA 130	689 mm	130 mm	122 mm	5,7 kg	FWS 2000	1790 mm	940 mm	840 mm	558 kg
FCA 140	670 mm	164 mm	146 mm	7,8 kg					
FCA 170	923 mm	164 mm	146 mm	9,5 kg					
FCA 180	897 mm	250 mm	225 mm	22,9 kg					
FCA 185	897 mm	250 mm	225 mm	22,4 kg					
FCA 190	1049 mm	250 mm	225 mm	24,5 kg					

Filtration

Compressed air filter up to 16 bar – Activated carbon filter – FCA..A.. , FWS..A.. series



Scope of supply

Ready-to-use filter including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing (FCA) or protection foil (FWS) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels (FWS). These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Filter housing including filter element(s) or cartridge ; plug screws ; manual drain ; flow direction for elements from inside to outside or cartridges from top to bottom

			Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity	Price A	Price CA	Prod.-grp.
FCA 20	M		30 m ³ /h	16 bar	G 1/4	EFST 25	1		126 €		01
FCA 25	M		35 m ³ /h	16 bar	G 3/8	EFST 25	1		131 €		01
FCA 30	M		50 m ³ /h	16 bar	G 3/8	EFST 30	1		166 €		01
FCA 50	M		70 m ³ /h	16 bar	G 1/2	EFST 50	1		191 €	234 €	01
FCA 70	M		100 m ³ /h	16 bar	G 1/2	EFST 70	1		241 €	300 €	01
FCA 90	M		160 m ³ /h	16 bar	G 3/4	EFST 90	1		391 €	466 €	01
FCA 95	M		160 m ³ /h	16 bar	G 1	EFST 90	1		396 €	471 €	01
FCA 110	M		330 m ³ /h	16 bar	G 1	EFST 110	1		496 €	589 €	01
FCA 115	M		330 m ³ /h	16 bar	G 1 ½	EFST 110	1		501 €	594 €	01
FCA 120	M		500 m ³ /h	16 bar	G 1 ½	EFST 120	1		596 €	704 €	01
FCA 130	M		800 m ³ /h	16 bar	G 1 ½	EFST 130	1		776 €	911 €	01
FCA 140	M		1.000 m ³ /h	16 bar	G 2	EFST 140	1		1.050 €		01
FCA 170	M		1.500 m ³ /h	16 bar	G 2	EFST 170	1		1.350 €		01
FCA 180	M		2.000 m ³ /h	16 bar	G 2 ½	EFST 180	1		1.900 €		01
FCA 185	M		2.000 m ³ /h	16 bar	G 3	EFST 180	1		1.950 €		01
FCA 190	M		2.500 m ³ /h	16 bar	G 3	EFST 190	1		2.200 €		01
FWS 170	M		1.500 m ³ /h	16 bar	DN 80	EFST 170	1		2.250 €		02
FWS 190	M		2.500 m ³ /h	16 bar	DN 80	EFST 190	1		2.850 €		02
FWS 200	M		3.000 m ³ /h	16 bar	DN 100	EFST 170	2		4.315 €		02
FWS 300	M		4.500 m ³ /h	16 bar	DN 100	EFST 170	3		5.215 €		02
FWS 400	M		6.000 m ³ /h	16 bar	DN 150	EFST 170	4		6.615 €		02
FWS 600	M		9.000 m ³ /h	16 bar	DN 150	EFST 170	6		9.315 €		02
FWS 800	M		12.000 m ³ /h	16 bar	DN 200	EFST 170	8		11.115 €		02
FWS 1000	M		15.000 m ³ /h	16 bar	DN 200	EFST 170	10		13.815 €		02
FWS 1200	M		18.000 m ³ /h	16 bar	DN 250	EFST 170	12		15.615 €		02
FWS 1600	M		24.000 m ³ /h	16 bar	DN 250	EFST 170	16		20.415 €		02
FWS 2000	M		30.000 m ³ /h	16 bar	DN 300	EFST 170	20		24.015 €		02



*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure

i Activated carbon filter for higher volume flows or bigger connection sizes are available on request (see also oil vapour adsorber).

Volume flow conversion factors for operating pressures deviating from reference conditions

0 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,125	0,25	0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Compressed air filter up to 16 bar – Dust filter – FCA..S.. , FWS..S.. series



Scope of supply

Ready-to-use filter including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing (FCA) or protection foil (FWS) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels (FWS). These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Filter housing including filter element(s) ; plug screws ; manual drain ; flow direction from outside to inside, alternatively inside to outside

			Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity	Price	Prod.-grp.
FCA	20	■ S M	30 m ³ /h	16 bar	G 1/4	EFST	25 ■	1	126 €	01
FCA	25	■ S M	35 m ³ /h	16 bar	G 3/8	EFST	25 ■	1	131 €	01
FCA	30	■ S M	50 m ³ /h	16 bar	G 3/8	EFST	30 ■	1	166 €	01
FCA	50	■ S M	70 m ³ /h	16 bar	G 1/2	EFST	50 ■	1	191 €	01
FCA	70	■ S M	100 m ³ /h	16 bar	G 1/2	EFST	70 ■	1	241 €	01
FCA	90	■ S M	160 m ³ /h	16 bar	G 3/4	EFST	90 ■	1	391 €	01
FCA	95	■ S M	160 m ³ /h	16 bar	G 1	EFST	90 ■	1	396 €	01
FCA	110	■ S M	330 m ³ /h	16 bar	G 1	EFST	110 ■	1	496 €	01
FCA	115	■ S M	330 m ³ /h	16 bar	G 1 ½	EFST	110 ■	1	501 €	01
FCA	120	■ S M	500 m ³ /h	16 bar	G 1 ½	EFST	120 ■	1	596 €	01
FCA	130	■ S M	800 m ³ /h	16 bar	G 1 ½	EFST	130 ■	1	776 €	01
FCA	140	■ S M	1.000 m ³ /h	16 bar	G 2	EFST	140 ■	1	1.050 €	01
FCA	170	■ S M	1.500 m ³ /h	16 bar	G 2	EFST	170 ■	1	1.350 €	01
FCA	180	■ S M	2.000 m ³ /h	16 bar	G 2 ½	EFST	180 ■	1	1.900 €	01
FCA	185	■ S M	2.000 m ³ /h	16 bar	G 3	EFST	180 ■	1	1.950 €	01
FCA	190	■ S M	2.500 m ³ /h	16 bar	G 3	EFST	190 ■	1	2.200 €	01
FWS	170	■ S M	1.500 m ³ /h	16 bar	DN 80	EFST	170 ■	1	2.250 €	02
FWS	190	■ S M	2.500 m ³ /h	16 bar	DN 80	EFST	190 ■	1	2.850 €	02
FWS	200	■ S M	3.000 m ³ /h	16 bar	DN 100	EFST	170 ■	2	4.315 €	02
FWS	300	■ S M	4.500 m ³ /h	16 bar	DN 100	EFST	170 ■	3	5.215 €	02
FWS	400	■ S M	6.000 m ³ /h	16 bar	DN 150	EFST	170 ■	4	6.615 €	02
FWS	600	■ S M	9.000 m ³ /h	16 bar	DN 150	EFST	170 ■	6	9.315 €	02
FWS	800	■ S M	12.000 m ³ /h	16 bar	DN 200	EFST	170 ■	8	11.115 €	02
FWS	1000	■ S M	15.000 m ³ /h	16 bar	DN 200	EFST	170 ■	10	13.815 €	02
FWS	1200	■ S M	18.000 m ³ /h	16 bar	DN 250	EFST	170 ■	12	15.615 €	02
FWS	1600	■ S M	24.000 m ³ /h	16 bar	DN 250	EFST	170 ■	16	20.415 €	02
FWS	2000	■ S M	30.000 m ³ /h	16 bar	DN 300	EFST	170 ■	20	24.015 €	02



*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure



Dust filter for higher volume flows or bigger connection sizes are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

0 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,125	0,25	0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

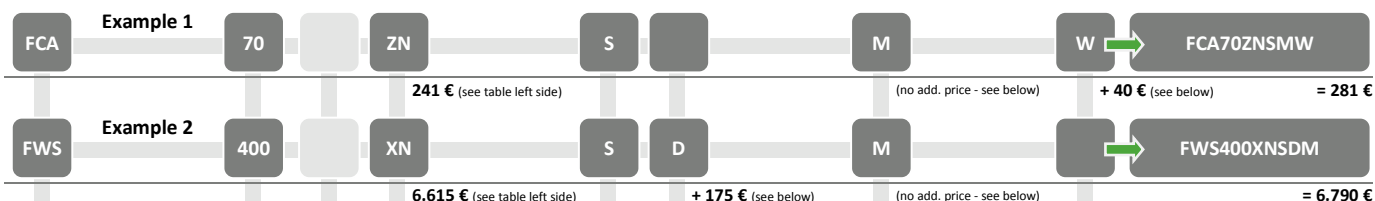
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:


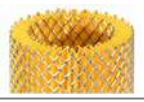
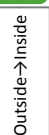






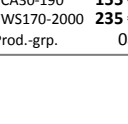


→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Compressed air filter up to 16 bar – Dust filter – FCA..S.. , FWS..S.. series

Options, order examples and price calculations



Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
FCA Threaded filter (aluminium) 	Size (see table left side)	[]	V Coarse filter 99,99% (3µ) 	S Outside → Inside 	D Differential pressure gauge 	M Manual condensate drain 	W Wall mounting 
FWS Flanged filter (steel) 		ZN General purpose 99,9999% (1µ) 	D Differential pressure gauge with alarm contact 	DC Differential pressure gauge with alarm contact 			
		XN Fine filter 99,9999% (0,01µ) 					
		XXN Super fine filter 99,99999% (0,01µ) 					

Price list for differential pressure gauges:

FCA30-190	95 €
FWS170-2000	175 €
Prod.-grp.	08

FCA30-190	155 €
FWS170-2000	235 €
Prod.-grp.	08

Sizes and weights (housing only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FCA 20	136 mm	61 mm	60 mm	0,5 kg	FWS 170	1115 mm	440 mm	285 mm	46 kg
FCA 25	136 mm	61 mm	60 mm	0,5 kg	FWS 190	1115 mm	440 mm	285 mm	46 kg
FCA 30	183 mm	87 mm	80 mm	1,0 kg	FWS 200	1298 mm	550 mm	405 mm	105 kg
FCA 50	183 mm	87 mm	80 mm	1,0 kg	FWS 300	1298 mm	550 mm	405 mm	105 kg
FCA 70	253 mm	87 mm	80 mm	1,1 kg	FWS 400	1503 mm	640 mm	460 mm	136 kg
FCA 90	289 mm	130 mm	122 mm	3,9 kg	FWS 600	1531 mm	800 mm	580 mm	205 kg
FCA 95	289 mm	130 mm	122 mm	3,8 kg	FWS 800	1531 mm	800 mm	580 mm	208 kg
FCA 110	387 mm	130 mm	122 mm	4,3 kg	FWS 1000	1590 mm	840 mm	715 mm	342 kg
FCA 115	387 mm	130 mm	122 mm	4,1 kg	FWS 1200	1695 mm	940 mm	715 mm	450 kg
FCA 120	487 mm	130 mm	122 mm	4,7 kg	FWS 1600	1740 mm	940 mm	840 mm	537 kg
FCA 130	689 mm	130 mm	122 mm	5,7 kg	FWS 2000	1790 mm	940 mm	840 mm	558 kg
FCA 140	670 mm	164 mm	146 mm	7,8 kg					
FCA 170	923 mm	164 mm	146 mm	9,5 kg					
FCA 180	897 mm	250 mm	225 mm	22,9 kg					
FCA 185	897 mm	250 mm	225 mm	22,4 kg					
FCA 190	1049 mm	250 mm	225 mm	24,5 kg					

Filtration

Water separator up to 50 bar – FCA../50WS.., FWS../50W.. series



Scope of supply

Ready-to-use water separator including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing (FCA) or protection foil (FWS) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels (FWS). These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Filter housing including water separator insert ; plug screws ; manual drain ; flow direction from outside to inside (FCA) or inside to outside (FWS)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity		Price	Prod.-grp.
FCA 30 /50 W S M	255 m ³ /h	50 bar	G 3/8	EFST	30 W	1		390 €	03
FCA 50 /50 W S M	357 m ³ /h	50 bar	G 1/2	EFST	30 W	1		430 €	03
FCA 70 /50 W S M	510 m ³ /h	50 bar	G 1/2	EFST	30 W	1		430 €	03
FCA 90 /50 W S M	816 m ³ /h	50 bar	G 3/4	EFST	90 W	1		760 €	03
FCA 95 /50 W S M	816 m ³ /h	50 bar	G 1	EFST	90 W	1		800 €	03
FCA 110 /50 W S M	1.683 m ³ /h	50 bar	G 1	EFST	90 W	1		800 €	03
FCA 115 /50 W S M	1.683 m ³ /h	50 bar	G 1 ½	EFST	90 W	1		845 €	03
FCA 120 /50 W S M	2.550 m ³ /h	50 bar	G 1 ½	EFST	120 W	1		1.100 €	03
FCA 130 /50 W S M	4.080 m ³ /h	50 bar	G 1 ½	EFST	120 W	1		1.100 €	03
FWS 140 /50 W M	5.100 m ³ /h	50 bar	DN 50	---	---	---		5.850 €	04
FWS 170 /50 W M	7.650 m ³ /h	50 bar	DN 80	---	---	---		5.980 €	04
FWS 190 /50 W M	12.750 m ³ /h	50 bar	DN 80	---	---	---		6.550 €	04

*1 – refers to 1 bar(a) and 20°C at 50 bar operating pressure



Water separators for higher volume flows or bigger connection sizes are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

17 bar	18 bar	19 bar	20 bar	25 bar	30 bar	35 bar	40 bar	45 bar	50 bar
0,44	0,46	0,48	0,50	0,61	0,70	0,78	0,86	0,93	1,00

For conversion the lowest appearing operating pressure must be considered.

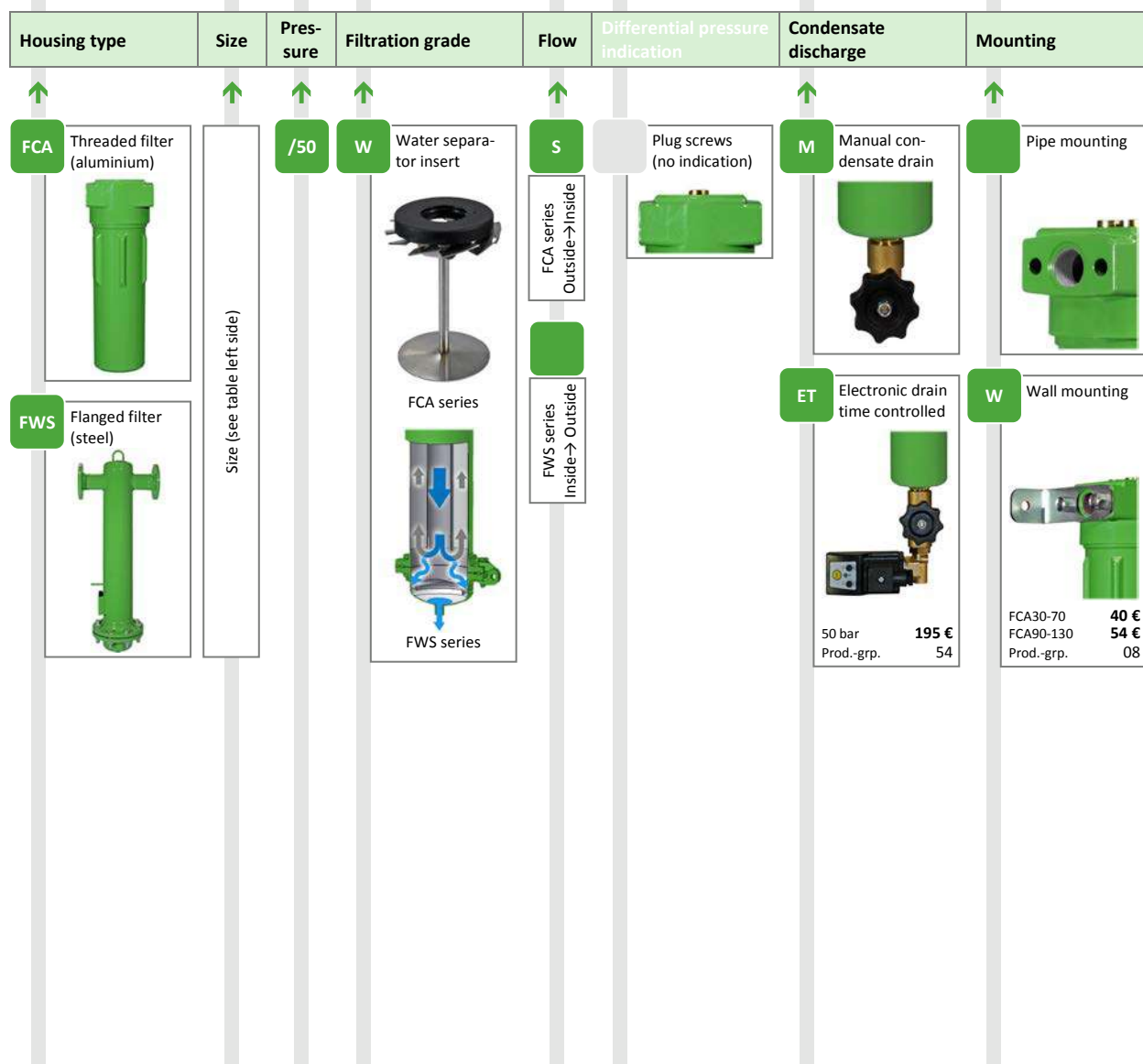
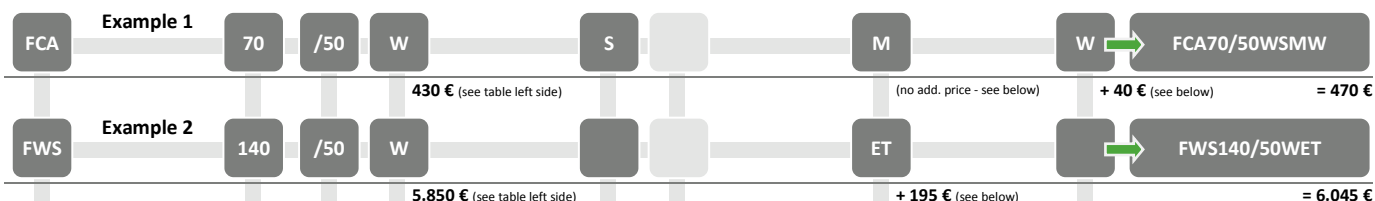
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Water separator up to 50 bar – FCA../50WS.., FWS../50W.. series

Options, order examples and price calculations



Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FCA 30/50	183 mm	87 mm	80 mm	1,0 kg	FWS 140/50	916 mm	440 mm	345 mm	83 kg
FCA 50/50	183 mm	87 mm	80 mm	1,0 kg	FWS 170/50	1166 mm	440 mm	345 mm	95 kg
FCA 70/50	253 mm	87 mm	80 mm	1,1 kg	FWS 190/50	1166 mm	440 mm	345 mm	95 kg
FCA 90/50	289 mm	130 mm	122 mm	3,9 kg					
FCA 95/50	289 mm	130 mm	122 mm	3,8 kg					
FCA 110/50	387 mm	130 mm	122 mm	4,3 kg					
FCA 115/50	387 mm	130 mm	122 mm	4,1 kg					
FCA 120/50	487 mm	130 mm	122 mm	4,7 kg					
FCA 130/50	689 mm	130 mm	122 mm	5,7 kg					

Filtration

Compressed air filter up to 50 bar – Coalescing and activated carbon filter – FCA../50.. , FWS../50.. series



Scope of supply

Ready-to-use filter including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing (FCA) or protection foil (FWS) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels (FWS). These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Filter housing including filter element ; plug screws ; manual drain ;
flow direction from inside to outside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity		Price	Prod.-grp.
FCA 20 /50 ■ M	153 m ³ /h	50 bar	G 1/4		EFST 25 ■	1		310 €	03
FCA 25 /50 ■ M	179 m ³ /h	50 bar	G 3/8		EFST 25 ■	1		320 €	03
FCA 30 /50 ■ M	255 m ³ /h	50 bar	G 3/8		EFST 30 ■	1		395 €	03
FCA 50 /50 ■ M	357 m ³ /h	50 bar	G 1/2		EFST 50 ■	1		465 €	03
FCA 70 /50 ■ M	510 m ³ /h	50 bar	G 1/2		EFST 70 ■	1		585 €	03
FCA 90 /50 ■ M	816 m ³ /h	50 bar	G 3/4		EFST 90 ■	1		850 €	03
FCA 95 /50 ■ M	816 m ³ /h	50 bar	G 1		EFST 90 ■	1		890 €	03
FCA 110 /50 ■ M	1.683 m ³ /h	50 bar	G 1		EFST 110 ■	1		960 €	03
FCA 115 /50 ■ M	1.683 m ³ /h	50 bar	G 1 ½		EFST 110 ■	1		975 €	03
FCA 120 /50 ■ M	2.550 m ³ /h	50 bar	G 1 ½		EFST 120 ■	1		1.190 €	03
FCA 130 /50 ■ M	4.080 m ³ /h	50 bar	G 1 ½		EFST 130 ■	1		1.475 €	03
FWS 140 /50 ■ M	5.100 m ³ /h	50 bar	DN 50		EFST 140 ■	1		5.950 €	04
FWS 170 /50 ■ M	7.650 m ³ /h	50 bar	DN 80		EFST 170 ■	1		6.180 €	04
FWS 190 /50 ■ M	12.750 m ³ /h	50 bar	DN 80		EFST 190 ■	1		6.830 €	04



*1 – refers to 1 bar(a) and 20°C at 50 bar operating pressure



Coalescing filter for higher volume flows or bigger connection sizes are available on request.

Activated carbon filter for higher volume flows or bigger connection sizes are available on request (see also oil vapour adsorber).

Volume flow conversion factors for operating pressures deviating from reference conditions

17 bar	18 bar	19 bar	20 bar	25 bar	30 bar	35 bar	40 bar	45 bar	50 bar
0,44	0,46	0,48	0,50	0,61	0,70	0,78	0,86	0,93	1,00

For conversion the lowest appearing operating pressure must be considered.

For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:















→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Compressed air filter up to 50 bar – Coalescing and activated carbon filter – FCA../50.., FWS../50.. series

Options, order examples and price calculations

Example 1	FCA	70	/50	ZN			M	W	FCA70/50ZNMW
					585 € (see table left side)		(no add. price - see below)	+ 40 € (see below)	= 625 €
Example 2	FWS	140	/50	XN		D	ET		FWS140/50XNDET
					5.950 € (see table left side)	+ 640 € (see below)	+ 195 € (see below)		= 6.785 €

Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
FCA Threaded filter (aluminium) 	Size (see table left side)	/50	V Coarse filter 99,99% (3µ) 	Inside → Outside	Plug screws (no indication) 	M Manual condensate drain 	Pipe mounting 
FWS Flanged filter (steel) 		ZN General purpose 99,9999% (1µ) 0,5 mg/m³ 	D Differential pressure gauge 		ET Electronic drain time controlled 	W Wall mounting 	
		XN Fine filter 99,99999% (0,01µ) 0,01 mg/m³ 	DC Differential pressure gauge with alarm contact 				
		XXN Super fine filter 99,99999% (0,01µ) 0,001 mg/m³ 					
		A Activated carbon element 					
					FCA30-130 495 € FWS140-190 640 € Prod.-grp. 09	50 bar 195 € Prod.-grp. 54	FCA20-70 40 € FCA90-130 54 € Prod.-grp. 08

Sizes and weights (housing only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FCA 20/50	136 mm	61 mm	60 mm	0,5 kg	FWS 140/50	916 mm	440 mm	345 mm	83 kg
FCA 25/50	136 mm	61 mm	60 mm	0,5 kg	FWS 170/50	1166 mm	440 mm	345 mm	95 kg
FCA 30/50	183 mm	87 mm	80 mm	1,0 kg	FWS 190/50	1166 mm	440 mm	345 mm	95 kg
FCA 50/50	183 mm	87 mm	80 mm	1,0 kg					
FCA 70/50	253 mm	87 mm	80 mm	1,1 kg					
FCA 90/50	289 mm	130 mm	122 mm	3,9 kg					
FCA 95/50	289 mm	130 mm	122 mm	3,8 kg					
FCA 110/50	387 mm	130 mm	122 mm	4,3 kg					
FCA 115/50	387 mm	130 mm	122 mm	4,1 kg					
FCA 120/50	487 mm	130 mm	122 mm	4,7 kg					
FCA 130/50	689 mm	130 mm	122 mm	5,7 kg					

Filtration

Compressed air filter up to 50 bar – Dust filter – FCA../50..S.. , FWS../50..S.. series



Scope of supply

Ready-to-use filter including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing (FCA) or protection foil (FWS) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels (FWS). These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Filter housing including filter element ; plug screws ; manual drain ; flow direction from outside to inside, alternatively inside to outside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity		Price	Prod.-grp.
FCA 20 /50 ■ S M	153 m ³ /h	50 bar	G 1/4		EFST 25 ■	1		310 €	03
FCA 25 /50 ■ S M	179 m ³ /h	50 bar	G 3/8		EFST 25 ■	1		320 €	03
FCA 30 /50 ■ S M	255 m ³ /h	50 bar	G 3/8		EFST 30 ■	1		395 €	03
FCA 50 /50 ■ S M	357 m ³ /h	50 bar	G 1/2		EFST 50 ■	1		465 €	03
FCA 70 /50 ■ S M	510 m ³ /h	50 bar	G 1/2		EFST 70 ■	1		585 €	03
FCA 90 /50 ■ S M	816 m ³ /h	50 bar	G 3/4		EFST 90 ■	1		850 €	03
FCA 95 /50 ■ S M	816 m ³ /h	50 bar	G 1		EFST 90 ■	1		890 €	03
FCA 110 /50 ■ S M	1.683 m ³ /h	50 bar	G 1		EFST 110 ■	1		960 €	03
FCA 115 /50 ■ S M	1.683 m ³ /h	50 bar	G 1 ½		EFST 110 ■	1		975 €	03
FCA 120 /50 ■ S M	2.550 m ³ /h	50 bar	G 1 ½		EFST 120 ■	1		1.190 €	03
FCA 130 /50 ■ S M	4.080 m ³ /h	50 bar	G 1 ½		EFST 130 ■	1		1.475 €	03
FWS 140 /50 ■ S M	5.100 m ³ /h	50 bar	DN 50		EFST 140 ■	1		5.950 €	04
FWS 170 /50 ■ S M	7.650 m ³ /h	50 bar	DN 80		EFST 170 ■	1		6.180 €	04
FWS 190 /50 ■ S M	12.750 m ³ /h	50 bar	DN 80		EFST 190 ■	1		6.830 €	04



*1 – refers to 1 bar(a) and 20°C at 50 bar operating pressure

i Dust filter for higher volume flows or bigger connection sizes are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

17 bar	18 bar	19 bar	20 bar	25 bar	30 bar	35 bar	40 bar	45 bar	50 bar
0,44	0,46	0,48	0,50	0,61	0,70	0,78	0,86	0,93	1,00

For conversion the lowest appearing operating pressure must be considered.

For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:


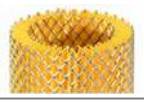








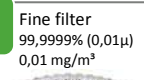

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Compressed air filter up to 50 bar – Dust filter – FCA../50..S.. , FWS../50..S.. series

Options, order examples and price calculations

Example 1	FCA	70	/50	ZN	S		M	W	FCA70/50ZNSMW
									585 € (see table left side) (no add. price - see below) + 40 € (see below) = 625 €
Example 2	FWS	140	/50	XN	S	D	M		FWS140/50XNSDM
									5.950 € (see table left side) + 640 € (see below) (no add. price - see below) = 6.590 €

Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
FCA Threaded filter (aluminium) 	Size (see table left side)	/50	V Coarse filter 99,99% (3µ) 	S Outside → Inside 	D Differential pressure gauge  FCA30-130 495 € FWS140-190 640 € Prod.-grp. 09	M Manual condensate drain 	W Wall mounting  FCA20-70 40 € FCA90-130 54 € Prod.-grp. 08
FWS Flanged filter (steel) 		ZN General purpose 99,9999% (1µ) 0,5 mg/m³ 	DC Differential pressure gauge with alarm contact  FCA30-130 595 € FWS140-190 740 € Prod.-grp. 09	Inside → Outside 			
		XN Fine filter 99,9999% (0,01µ) 0,01 mg/m³ 					
		XXN Super fine filter 99,99999% (0,01µ) 0,001 mg/m³ 					

Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FCA 20/50	137 mm	61 mm	60 mm	0,5 kg	FWS 140/50	916 mm	440 mm	345 mm	83 kg
FCA 25/50	137 mm	61 mm	60 mm	0,5 kg	FWS 170/50	1166 mm	440 mm	345 mm	95 kg
FCA 30/50	183 mm	87 mm	80 mm	1,0 kg	FWS 190/50	1166 mm	440 mm	345 mm	95 kg
FCA 50/50	183 mm	87 mm	80 mm	1,0 kg					
FCA 70/50	183 mm	87 mm	80 mm	1,1 kg					
FCA 90/50	289 mm	130 mm	122 mm	3,9 kg					
FCA 95/50	289 mm	130 mm	122 mm	3,8 kg					
FCA 110/50	289 mm	130 mm	122 mm	4,3 kg					
FCA 115/50	289 mm	130 mm	122 mm	4,1 kg					
FCA 120/50	489 mm	130 mm	122 mm	4,7 kg					
FCA 130/50	489 mm	130 mm	122 mm	5,7 kg					

Filtration

Water separator up to 350 bar – FMA..W.. , FMS..W.. series

Scope of supply

Ready-to-use water separator including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.



Standard version

Filter housing including water separator insert ; plug screws ; manual drain ; flow direction from inside to outside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection		Element(s)	Quantity		Price	Prod.-grp.
FMA 30 /100 W M	380 m ³ /h	100 bar	G 3/8		EFST 50 WHP	1		795 €	05
FMA 50 /100 W M	532 m ³ /h	100 bar	G 1/2		EFST 50 WHP	1		885 €	05
FMA 70 /100 W M	760 m ³ /h	100 bar	G 1/2		EFST 70 WHP	1		1.120 €	05
FMS 90 /100 W M	1.216 m ³ /h	100 bar	G 3/4		EFST 90 WHP	1		1.755 €	06
FMS 110 /100 W M	2.508 m ³ /h	100 bar	G 1		EFST 110 WHP	1		2.195 €	06

*1 – refers to 1 bar(a) and 20°C at 100 bar operating pressure

	Nominal volume flow ^{*2}	Maximum operating pressure	Connection		Element(s)	Quantity		Price	Prod.-grp.
FMA 30 /350 W M	650 m ³ /h	350 bar	G 3/8		EFST 50 WHP	1		1.371 €	05
FMA 50 /350 W M	910 m ³ /h	350 bar	G 1/2		EFST 50 WHP	1		1.556 €	05
FMA 70 /350 W M	1.300 m ³ /h	350 bar	G 1/2		EFST 70 WHP	1		1.991 €	05
FMS 90 /350 W M	2.080 m ³ /h	350 bar	G 3/4		EFST 90 WHP	1		3.226 €	06
FMS 110 /350 W M	4.290 m ³ /h	350 bar	G 1		EFST 110 WHP	1		4.071 €	06

*2 – refers to 1 bar(a) and 20°C at 350 bar operating pressure



High pressure water separators for higher volume flows, higher operating pressures, bigger connection sizes or stainless steel materials are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

100 bar

55 bar	60 bar	65 bar	70 bar	75 bar	80 bar	85 bar	90 bar	95 bar	100 bar
0,71	0,75	0,79	0,83	0,86	0,89	0,92	0,95	0,98	1,00

350 bar

125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	275 bar	300 bar	325 bar	350 bar
0,65	0,71	0,76	0,81	0,85	0,89	0,92	0,95	0,98	1,00

For conversion the lowest appearing operating pressure must be considered.

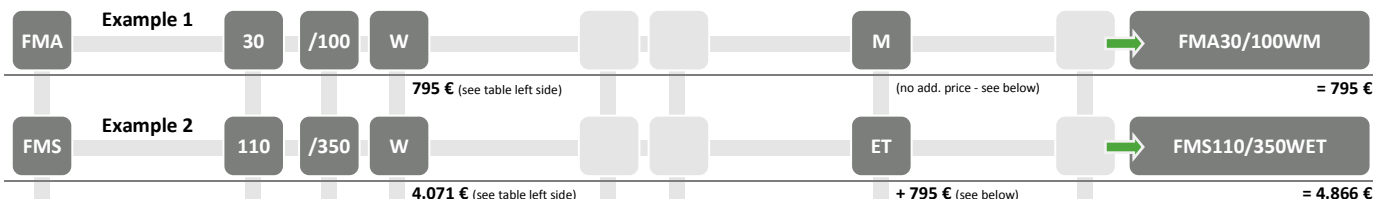
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:



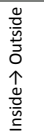





→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Water separator up to 350 bar – FMA..W.. , FMS..W.. series

Options, order examples and price calculations



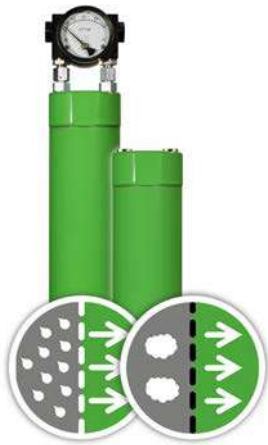
Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
FMA Threaded filter (aluminium) 	Size (see table left side)	/100	W Water separator insert 	Inside → Outside 	Plug screws (no indication) 	M Manual condensate drain 	Pipe mounting 
FMS Threaded filter (steel) 		/350				ET Electronic drain time controlled  100 bar 375 € 350 bar 795 € Prod.-grp. 54	

Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FMA 30/100	225 mm	82 mm	87 mm	2,3 kg	FMA 30/350	225 mm	82 mm	87 mm	2,3 kg
FMA 50/100	225 mm	82 mm	87 mm	2,3 kg	FMA 50/350	225 mm	82 mm	87 mm	2,3 kg
FMA 70/100	290 mm	82 mm	87 mm	2,7 kg	FMA 70/350	290 mm	82 mm	87 mm	2,7 kg
FMS 90/100	325 mm	116 mm	125 mm	18,8 kg	FMS 90/350	325 mm	116 mm	125 mm	18,8 kg
FMS 110/100	410 mm	116 mm	125 mm	22,4 kg	FMS 110/350	410 mm	116 mm	125 mm	22,4 kg

Filtration

Compressed air filter up to 350 bar – Coalescing and activated carbon filter – FMA.. , FMS.. series



Scope of supply

Ready-to-use filter including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Filter housing including filter element ; plug screws ; manual drain ; flow direction from inside to outside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Element(s)	Quantity	Price	Prod.-grp.
FMA 30 /100 ■ M	380 m ³ /h	100 bar	G 3/8	EFST 30 ■	1	690 €	05
FMA 50 /100 ■ M	532 m ³ /h	100 bar	G 1/2	EFST 50 ■	1	790 €	05
FMA 70 /100 ■ M	760 m ³ /h	100 bar	G 1/2	EFST 70 ■	1	990 €	05
FMS 90 /100 ■ M	1.216 m ³ /h	100 bar	G 3/4	EFST 90 ■	1	1.590 €	06
FMS 110 /100 ■ M	2.508 m ³ /h	100 bar	G 1	EFST 110 ■	1	1.990 €	06

	Nominal volume flow ^{*2}	Maximum operating pressure	Connection	Element(s)	Quantity	Price	Prod.-grp.
FMA 30 /350 ■ M	650 m ³ /h	350 bar	G 3/8	EFST 30 ■	1	1.266 €	05
FMA 50 /350 ■ M	910 m ³ /h	350 bar	G 1/2	EFST 50 ■	1	1.461 €	05
FMA 70 /350 ■ M	1.300 m ³ /h	350 bar	G 1/2	EFST 70 ■	1	1.861 €	05
FMS 90 /350 ■ M	2.080 m ³ /h	350 bar	G 3/4	EFST 90 ■	1	3.061 €	06
FMS 110 /350 ■ M	4.290 m ³ /h	350 bar	G 1	EFST 110 ■	1	3.866 €	06



*1 – refers to 1 bar(a) and 20°C at 100 bar operating pressure

*2 – refers to 1 bar(a) and 20°C at 350 bar operating pressure



High pressure coalescing and activated carbon filter for higher volume flows, higher operating pressures, bigger connection sizes or stainless steel materials are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

100 bar

55 bar	60 bar	65 bar	70 bar	75 bar	80 bar	85 bar	90 bar	95 bar	100 bar
0,71	0,75	0,79	0,83	0,86	0,89	0,92	0,95	0,98	1,00

350 bar

125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	275 bar	300 bar	325 bar	350 bar
0,65	0,71	0,76	0,81	0,85	0,89	0,92	0,95	0,98	1,00

For conversion the lowest appearing operating pressure must be considered.

For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:














→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Compressed air filter up to 350 bar – Coalescing and activated carbon filter – FMA.. , FMS.. series

Options, order examples and price calculations

Example 1	FMA	30	/100	XN		D	M		FMA30/100XNDM	
					690 € (see table left side)	+ 525 € (see below)	(no add. price - see below)			= 1.215 €
Example 2	FMS	110	/350	ZN			ET		FMS110/350ZNET	
					3.866 € (see table left side)		+ 795 € (see below)			= 4.661 €

Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
FMA Threaded filter (aluminium) 	Size (see table left side)	/100	V Coarse filter 99,99% (3µ) 	Inside → Outside	Plug screws (no indication) 	M Manual condensate drain 	Pipe mounting 
		/350	ZN General purpose 99,9999% (1µ) 0,5 mg/m³ 		D Differential pressure gauge 	ET Electronic drain time controlled 	
FMS Threaded filter (steel) 			XN Fine filter 99,9999% (0,01µ) 0,01 mg/m³ 		FMA30-70 525 € FMS90-110 525 € Prod.-grp. 09	100 bar 375 € 350 bar 795 € Prod.-grp. 54	
			XXN Super fine filter 99,99999% (0,01µ) 0,001 mg/m³ 		DC Differential pressure gauge with alarm contact 		
			A Activated carbon element 		FMA30-70 625 € FMS90-110 625 € Prod.-grp. 09		

Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FMA 30/100	225 mm	82 mm	87 mm	2,3 kg	FMA 30/350	225 mm	82 mm	87 mm	2,3 kg
FMA 50/100	225 mm	82 mm	87 mm	2,3 kg	FMA 50/350	225 mm	82 mm	87 mm	2,3 kg
FMA 70/100	290 mm	82 mm	87 mm	2,7 kg	FMA 70/350	290 mm	82 mm	87 mm	2,7 kg
FMS 90/100	325 mm	116 mm	125 mm	18,8 kg	FMS 90/350	325 mm	116 mm	125 mm	18,8 kg
FMS 110/100	410 mm	116 mm	125 mm	22,4 kg	FMS 110/350	410 mm	116 mm	125 mm	22,4 kg

Filtration

Compressed air filter up to 350 bar – Dust filter – FMA..S., FMS..S. series



Scope of supply

Ready-to-use filter including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Filter housing including filter element ; plug screws ; manual drain ;
flow direction from outside to inside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Element(s)	Quantity	Price	Prod.-grp.
FMA 30 /100 ■ S M	380 m ³ /h	100 bar	G 3/8	EFST 30 ■	1	690 €	05
FMA 50 /100 ■ S M	532 m ³ /h	100 bar	G 1/2	EFST 50 ■	1	790 €	05
FMA 70 /100 ■ S M	760 m ³ /h	100 bar	G 1/2	EFST 70 ■	1	990 €	05
FMS 90 /100 ■ S M	1.216 m ³ /h	100 bar	G 3/4	EFST 90 ■	1	1.590 €	06
FMS 110 /100 ■ S M	2.508 m ³ /h	100 bar	G 1	EFST 110 ■	1	1.990 €	06

	Nominal volume flow ^{*2}	Maximum operating pressure	Connection	Element(s)	Quantity	Price	Prod.-grp.
FMA 30 /350 ■ S M	650 m ³ /h	350 bar	G 3/8	EFST 30 ■	1	1.266 €	05
FMA 50 /350 ■ S M	910 m ³ /h	350 bar	G 1/2	EFST 50 ■	1	1.461 €	05
FMA 70 /350 ■ S M	1.300 m ³ /h	350 bar	G 1/2	EFST 70 ■	1	1.861 €	05
FMS 90 /350 ■ S M	2.080 m ³ /h	350 bar	G 3/4	EFST 90 ■	1	3.061 €	06
FMS 110 /350 ■ S M	4.290 m ³ /h	350 bar	G 1	EFST 110 ■	1	3.866 €	06



*1 – refers to 1 bar(a) and 20°C at 100 bar operating pressure

*2 – refers to 1 bar(a) and 20°C at 350 bar operating pressure



High pressure dust filter for higher volume flows, higher operating pressures, bigger connection sizes or stainless steel materials are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

100 bar

55 bar	60 bar	65 bar	70 bar	75 bar	80 bar	85 bar	90 bar	95 bar	100 bar
0,71	0,75	0,79	0,83	0,86	0,89	0,92	0,95	0,98	1,00

350 bar

125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	275 bar	300 bar	325 bar	350 bar
0,65	0,71	0,76	0,81	0,85	0,89	0,92	0,95	0,98	1,00

For conversion the lowest appearing operating pressure must be considered.

For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Process filter up to 16 bar – Industrial grades – FWP.. series



Scope of supply

Filter housing and element(s); element(s), sealed in a foil bag, separately enclosed; single cardboard packing (FWP 20-190) or protection foil (FWP 300-500); transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. For size FWP130 to FWP500 a declaration of conformity and/or additional pressure vessel documents are provided. These documents are created individually for each of these products and will be sent separately.

Standard version

Stainless steel filter housing (1.4301) with element(s); plug screw (top); manual drain; flow direction from inside to outside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Element(s)	Quantity	Price	Prod.-grp.
FWP 20 ■ M	30 m ³ /h	16 bar	G 1/4	EFSTP 90 ■	1	995 €	07
FWP 30 ■ M	50 m ³ /h	16 bar	G 3/8	EFSTP 90 ■	1	1.010 €	07
FWP 70 ■ M	100 m ³ /h	16 bar	G 1/2	EFSTP 90 ■	1	1.085 €	07
FWP 90 ■ M	160 m ³ /h	16 bar	G 3/4	EFSTP 90 ■	1	1.135 €	07
FWP 110 ■ M	330 m ³ /h	16 bar	G 1	EFSTP 120 ■	1	1.290 €	07
FWP 120 ■ M	500 m ³ /h	16 bar	G 1 ½	EFSTP 120 ■	1	1.420 €	07
FWP 130 ■ M	800 m ³ /h	16 bar	G 1 ½	EFSTP 140 ■	1	1.800 €	07
FWP 140 ■ M	1.000 m ³ /h	16 bar	G 2	EFSTP 140 ■	1	1.925 €	07
FWP 170 ■ M	1.500 m ³ /h	16 bar	G 2	EFSTP 180 ■	1	2.265 €	07
FWP 180 ■ M	2.000 m ³ /h	12 bar	G 2 ½	EFSTP 180 ■	1	2.640 €	07
FWP 190 ■ M	2.500 m ³ /h	12 bar	G 3	EFSTP 190 ■	1	2.975 €	07
FWP 300 ■ M	3.400 m ³ /h	8 bar	DN 100	EFSTP 180 ■	3	11.455 €	07
FWP 500 ■ M	4.500 m ³ /h	8 bar	DN 100	EFSTP 180 ■	5	14.215 €	07



*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure

i Process filter with different connection types or materials are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

0 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,125	0,25	0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

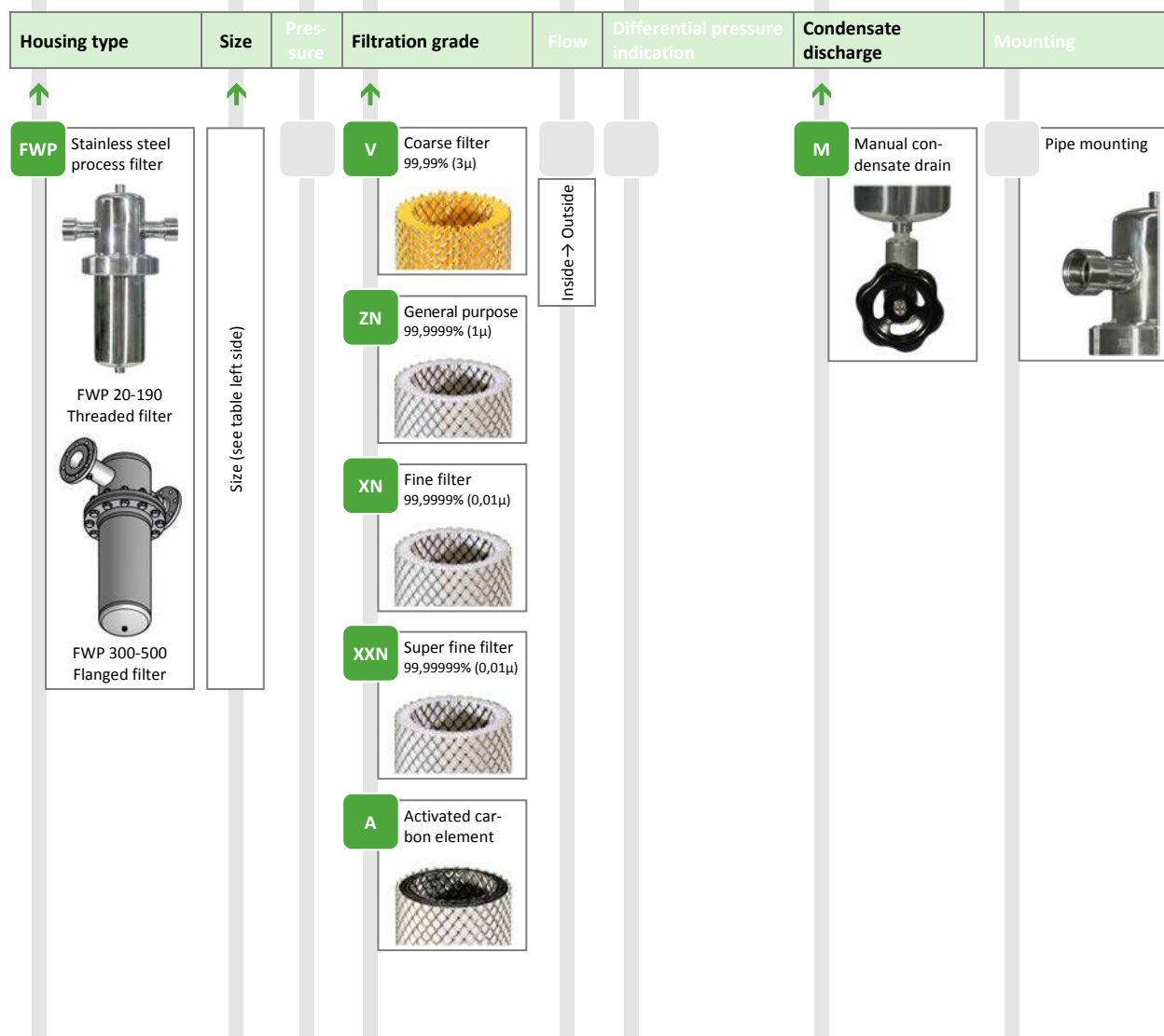
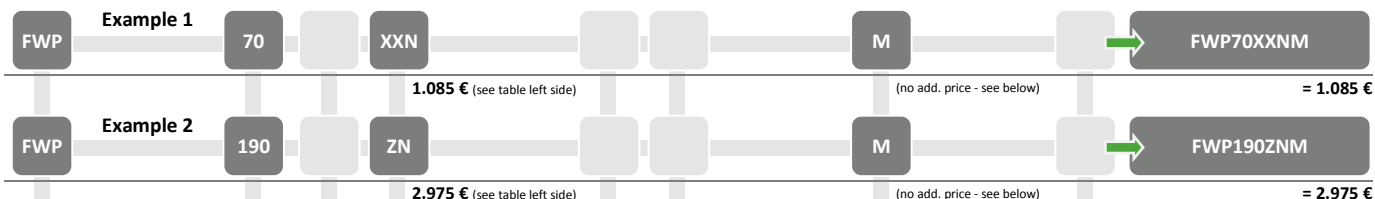
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Process filter up to 16 bar – Industrial grades – FWP.. series

Options, order examples and price calculations



Sizes and weights (housing only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FWP 20	220 mm	147 mm	108 mm	2,3 kg	FWP 300	870 mm	476 mm	340 mm	44 kg
FWP 30	220 mm	147 mm	108 mm	2,4 kg	FWP 500	890 mm	509 mm	405 mm	54 kg
FWP 70	220 mm	151 mm	108 mm	2,4 kg					
FWP 90	220 mm	151 mm	108 mm	2,4 kg					
FWP 110	312 mm	188 mm	135 mm	3,4 kg					
FWP 120	312 mm	198 mm	135 mm	3,5 kg					
FWP 130	486 mm	233 mm	170 mm	6,2 kg					
FWP 140	486 mm	233 mm	170 mm	6,2 kg					
FWP 170	792 mm	233 mm	170 mm	7,7 kg					
FWP 180	792 mm	275 mm	200 mm	11,7 kg					
FWP 190	1056 mm	289 mm	200 mm	13,1 kg					

Filtration

Process filter up to 16 bar – Sterile filter – FWP..STPL.. , FWP..SMPL.. series



Scope of supply

Filter housing and element(s) ; element(s), sealed in a foil bag, separately enclosed ; single cardboard packing (FWP 20-190) or protection foil (FWP 300-500) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. For size FWP130 to FWP500 a declaration of conformity and/or additional pressure vessel documents are provided. These documents are created individually for each of these products and will be sent separately.

Standard version

Stainless steel filter housing (1.4301) with element(s) STPL (depth filter) or SMPL (membrane filter) ; plug screws ; flow direction from outside to inside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Element(s)	Quantity	Price STPL	Price SMPL	Prod.-grp.
FWP 20 ■ S P	30 m ³ /h	16 bar	G 1/4	EFSTP 90 ■	1	735 €	785 €	07
FWP 30 ■ S P	50 m ³ /h	16 bar	G 3/8	EFSTP 90 ■	1	750 €	800 €	07
FWP 70 ■ S P	100 m ³ /h	16 bar	G 1/2	EFSTP 90 ■	1	820 €	870 €	07
FWP 90 ■ S P	160 m ³ /h	16 bar	G 3/4	EFSTP 90 ■	1	865 €	915 €	07
FWP 110 ■ S P	330 m ³ /h	16 bar	G 1	EFSTP 120 ■	1	1.025 €	1.103 €	07
FWP 120 ■ S P	500 m ³ /h	16 bar	G 1 ½	EFSTP 120 ■	1	1.145 €	1.223 €	07
FWP 130 ■ S P	800 m ³ /h	16 bar	G 1 ½	EFSTP 140 ■	1	1.450 €	1.583 €	07
FWP 140 ■ S P	1.000 m ³ /h	16 bar	G 2	EFSTP 140 ■	1	1.590 €	1.723 €	07
FWP 170 ■ S P	1.500 m ³ /h	16 bar	G 2	EFSTP 180 ■	1	1.940 €	2.138 €	07
FWP 180 ■ S P	2.000 m ³ /h	12 bar	G 2 ½	EFSTP 180 ■	1	2.290 €	2.488 €	07
FWP 190 ■ S P	2.500 m ³ /h	12 bar	G 3	EFSTP 190 ■	1	2.640 €	2.903 €	07
FWP 300 ■ S P	3.400 m ³ /h	8 bar	DN 100	EFSTP 180 ■	3	10.450 €	11.044 €	07
FWP 500 ■ S P	4.500 m ³ /h	8 bar	DN 100	EFSTP 180 ■	5	12.950 €	13.940 €	07



*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure

i Sterile filter with different connection types or materials are available on request.

Volume flow conversion factors for operating pressures deviating from reference conditions

0 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,125	0,25	0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

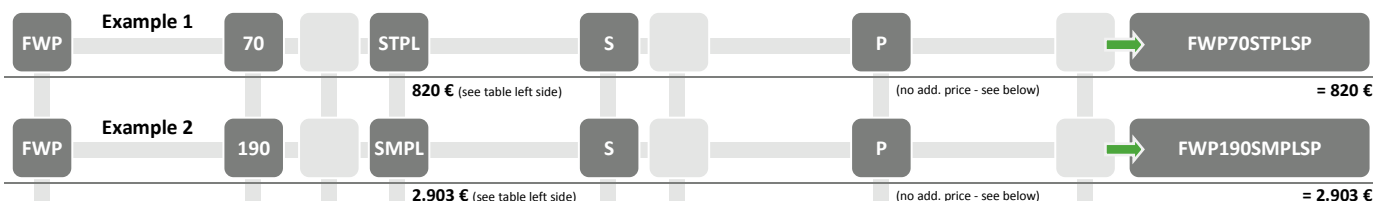
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“


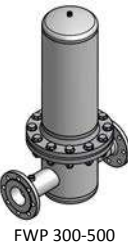




Filtration

Process filter up to 16 bar – Sterile filter – FWP..STPL.., FWP..SMPL.. series

Options, order examples and price calculations



Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
--------------	------	----------	------------------	------	----------------------------------	----------------------	----------

<p>FWP Stainless steel process filter</p>  <p>FWP 20-190 Threaded filter</p>  <p>FWP 300-500 Flanged filter</p>	<p>Size (see table left side)</p>		<p>STPL Sterile filter (depth filter)</p>  <p>SMPL Sterile filter (membrane)</p> 	<p>S</p> <p>Outside → Inside</p>		<p>P Plug screws</p> 	<p>Pipe mounting</p> 
--	-----------------------------------	--	---	---	--	---	--

Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
FWP 20	220 mm	147 mm	108 mm	2,3 kg	FWP 300	870 mm	476 mm	340 mm	44 kg
FWP 30	220 mm	147 mm	108 mm	2,4 kg	FWP 500	890 mm	509 mm	405 mm	54 kg
FWP 70	220 mm	151 mm	108 mm	2,4 kg					
FWP 90	220 mm	151 mm	108 mm	2,4 kg					
FWP 110	312 mm	188 mm	135 mm	3,4 kg					
FWP 120	312 mm	198 mm	135 mm	3,5 kg					
FWP 130	486 mm	233 mm	170 mm	6,2 kg					
FWP 140	486 mm	233 mm	170 mm	6,2 kg					
FWP 170	792 mm	233 mm	170 mm	7,7 kg					
FWP 180	792 mm	275 mm	200 mm	11,7 kg					
FWP 190	1056 mm	289 mm	200 mm	13,1 kg					

Filtration

Process filter up to 16 bar – Steam filter – FWP..D.. series



Scope of supply

Filter housing and element(s) ; element(s), sealed in a foil bag, separately enclosed ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

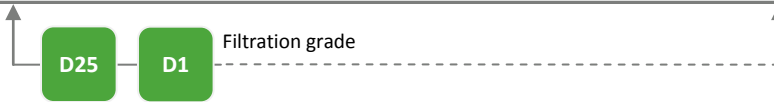
Operating manuals including the manufacturer's declaration are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. For size FWP130 to FWP190 a declaration of conformity and/or additional pressure vessel documents are provided. These documents are created individually for each of these products and will be sent separately.

Standard version

Stainless steel filter housing (1.4301) with element(s) ; plug screws ; flow direction from outside to inside

	Nominal steam capacity D25*1	Nominal steam capacity D1*1	Maximum operating pressure	Connection	Element(s)	Quantity	Price	Prod.-grp.
FWP 20 ■ S P	10 kg/h	4 kg/h	16 bar	G 1/4	EFSTP 90 ■	1	820 €	07
FWP 30 ■ S P	14 kg/h	6 kg/h	16 bar	G 3/8	EFSTP 90 ■	1	835 €	07
FWP 70 ■ S P	32 kg/h	10 kg/h	16 bar	G 1/2	EFSTP 90 ■	1	905 €	07
FWP 90 ■ S P	50 kg/h	13 kg/h	16 bar	G 3/4	EFSTP 90 ■	1	950 €	07
FWP 110 ■ S P	86 kg/h	22 kg/h	16 bar	G 1	EFSTP 120 ■	1	1.100 €	07
FWP 120 ■ S P	130 kg/h	30 kg/h	16 bar	G 1 ½	EFSTP 120 ■	1	1.220 €	07
FWP 130 ■ S P	205 kg/h	55 kg/h	16 bar	G 1 ½	EFSTP 140 ■	1	1.540 €	07
FWP 140 ■ S P	290 kg/h	70 kg/h	16 bar	G 2	EFSTP 140 ■	1	1.680 €	07
FWP 170 ■ S P	370 kg/h	100 kg/h	16 bar	G 2	EFSTP 180 ■	1	2.095 €	07
FWP 180 ■ S P	550 kg/h	140 kg/h	12 bar	G 2 ½	EFSTP 180 ■	1	2.445 €	07
FWP 190 ■ S P	820 kg/h	210 kg/h	12 bar	G 3	EFSTP 190 ■	1	2.795 €	07



*1 – refers to saturated steam at 134°C

i Steam filter with different connection types or materials are available on request.

i High temperature gaskets for temperatures up to 200°C are available on request (standard up to 134°C).

Steam flow conversion factors for steam temperatures deviating from reference conditions

0,5 bar 111°C	1,0 bar 120°C	1,5 bar 127°C	2 bar 134°C	2,5 bar 139°C	3,0 bar 144°C	3,5 bar 148°C	4,0 bar 152°C	4,5 bar 156°C	5,0 bar 159°C	6,0 bar 165°C	7,0 bar 170°C	8 bar 175°C	9 bar 180°C	10 bar 184°C	12 bar 192°C	15 bar 201°C
0,52	0,68	0,84	1,00	1,16	1,31	1,46	1,62	1,77	1,92	2,22	2,52	2,82	3,12	3,41	4,0	4,9

For conversion the lowest appearing steam temperature must be considered.

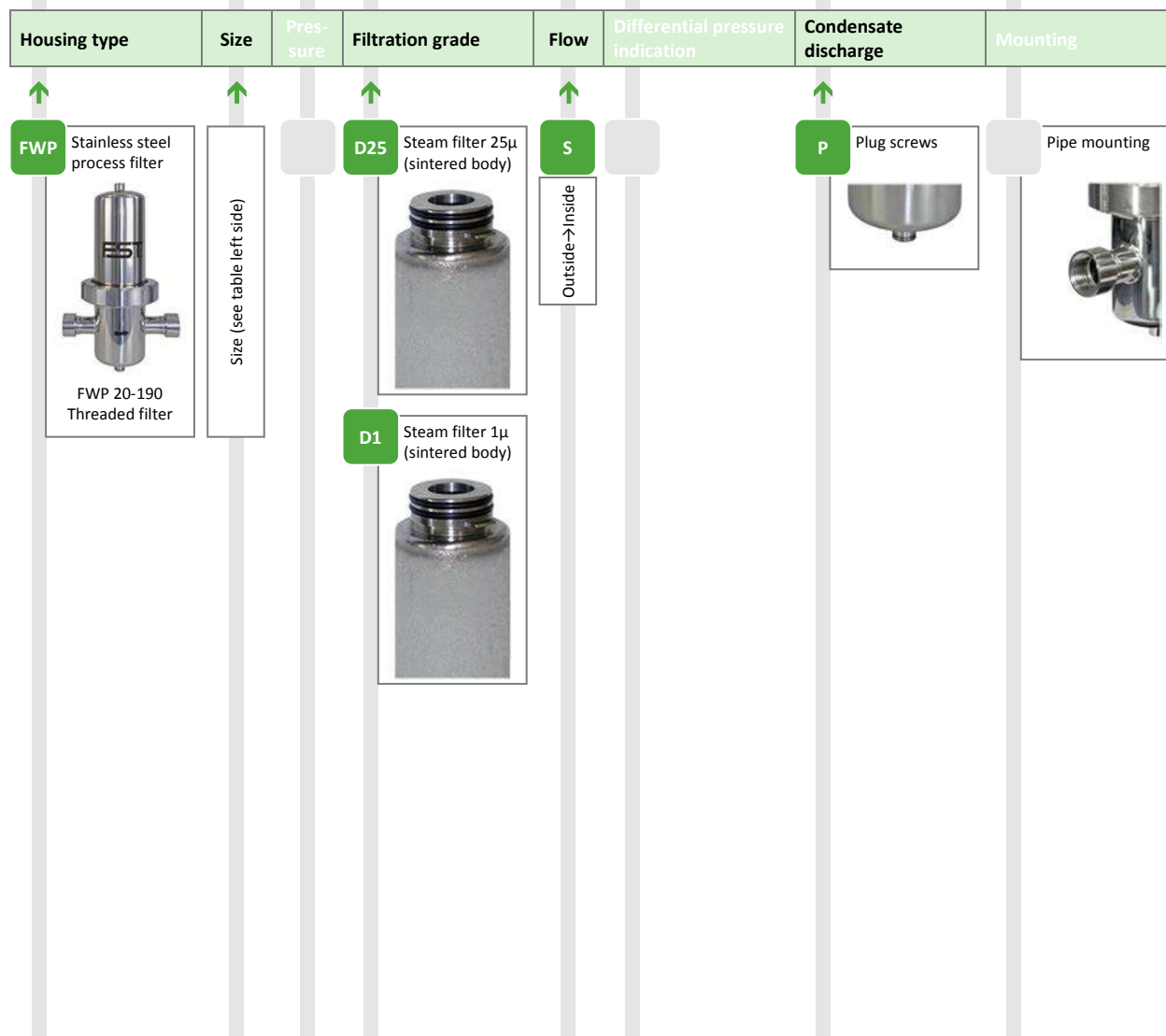
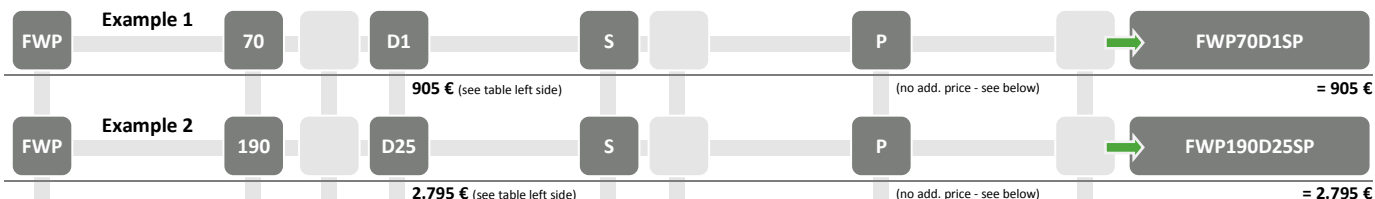
For a comprehensive description of how to use the conversion factor, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Process filter up to 16 bar – Steam filter – FWP..D.. series

Options, order examples and price calculations



Sizes and weights (housing only)

	Height [A]	Width [B]	Depth [C]	Weight
FWP 20	220 mm	147 mm	108 mm	2,3 kg
FWP 30	220 mm	147 mm	108 mm	2,4 kg
FWP 70	220 mm	151 mm	108 mm	2,4 kg
FWP 90	220 mm	151 mm	108 mm	2,4 kg
FWP 110	312 mm	188 mm	135 mm	3,4 kg
FWP 120	312 mm	198 mm	135 mm	3,5 kg
FWP 130	486 mm	233 mm	170 mm	6,2 kg
FWP 140	486 mm	233 mm	170 mm	6,2 kg
FWP 170	792 mm	233 mm	170 mm	7,7 kg
FWP 180	792 mm	275 mm	200 mm	11,7 kg
FWP 190	1056 mm	289 mm	200 mm	13,1 kg

Filtration

Process filter – Sterile vent filter – FWPV..STPL.. series



Scope of supply

Filter housing and element ; element, sealed in a foil bag, separately enclosed ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Stainless steel filter housing (1.4301) with element STPL (depth filter) ; flow direction through the filter element in both directions

	Nominal volume flow 15 mbar ^{*1}	Nominal volume flow 50 mbar ^{*1}	Connection		Element(s)	Quantity	Price	Prod.-grp.
FWPV 70 ■	6 m ³ /h	20 m ³ /h	G 1/2		EFSTP 90 ■	1	725 €	07
FWPV 110 ■	10 m ³ /h	30 m ³ /h	G 1		EFSTP 120 ■	1	840 €	07
FWPV 120 ■	12 m ³ /h	35 m ³ /h	G 1 ½		EFSTP 120 ■	1	925 €	07
FWPV 140 ■	30 m ³ /h	100 m ³ /h	G 2		EFSTP 140 ■	1	1.200 €	07
FWPV 180 ■	55 m ³ /h	160 m ³ /h	G 2 ½		EFSTP 180 ■	1	1.700 €	07
FWPV 190 ■	70 m ³ /h	200 m ³ /h	G 3		EFSTP 190 ■	1	1.950 €	07

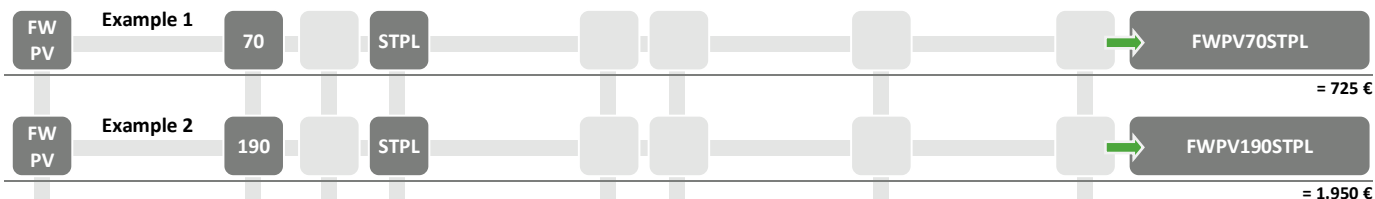
STPL Filtration grade

*1 – refers to 1 bar(a) and 20°C at ambient conditions

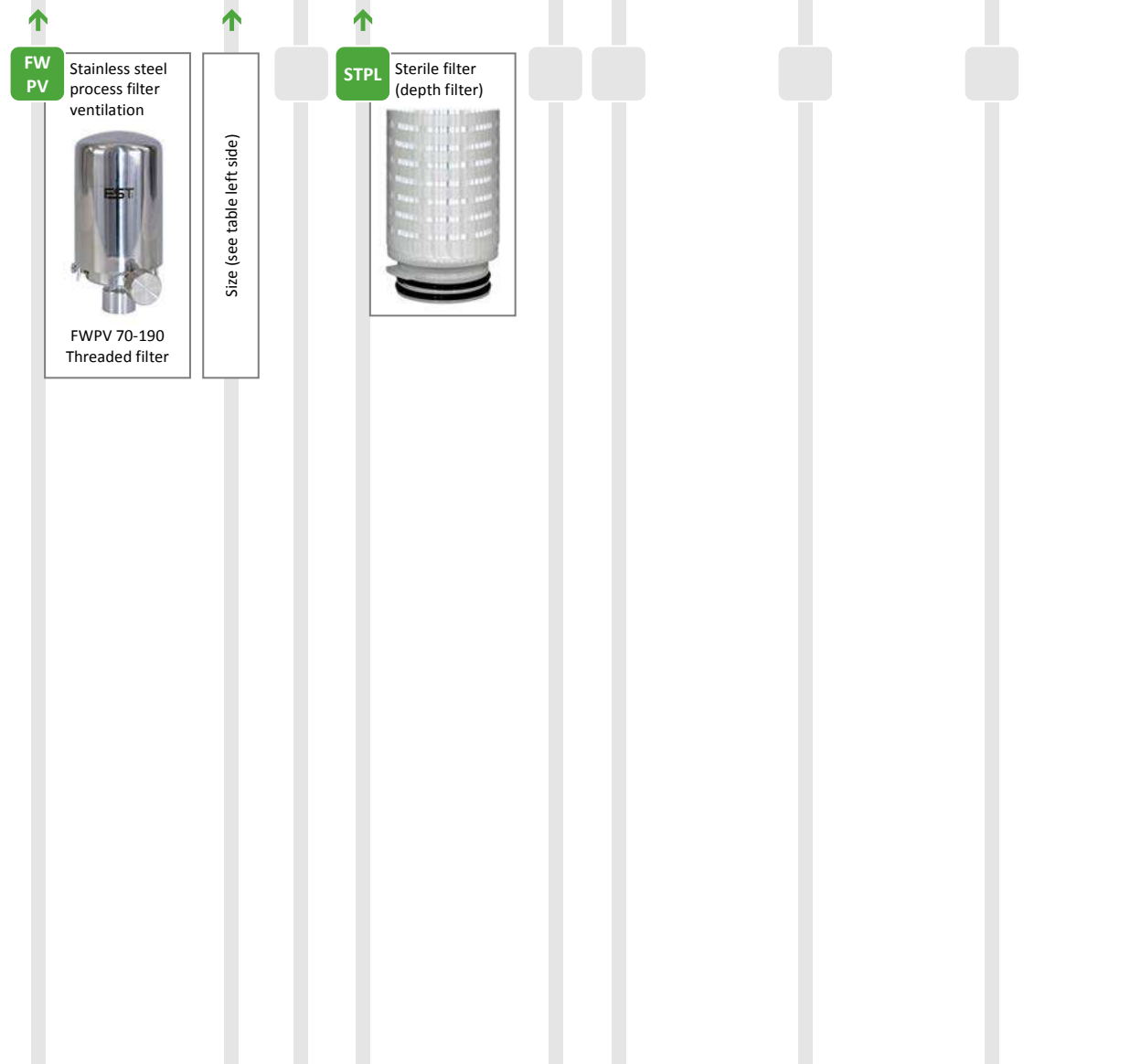
Filtration

Process filter – Sterile vent filter – FWPV..STPL.. series

Options, order examples and price calculations



Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
--------------	------	----------	------------------	------	----------------------------------	----------------------	----------



Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight
FWPV 70	166 mm	70 mm	70 mm	1,0 kg
FWPV 110	221 mm	70 mm	70 mm	1,3 kg
FWPV 120	221 mm	70 mm	70 mm	1,8 kg
FWPV 140	406 mm	129 mm	129 mm	3,3 kg
FWPV 180	654 mm	129 mm	129 mm	5,1 kg
FWPV 190	901 mm	129 mm	129 mm	6,7 kg

Filtration
Filter combinations



Order examples and price calculation


We offer the service to supply fully assembled and thus Ready-to-use filter combinations. Even more, each single filter stage can still be configured individually.

With filter combinations, the single filters are assembled to one complete unit, considering their individual configuration / scope of supply. There is NO price adder for this service, which means the price for a filter combination is the same as the sum of prices of the according single filters (each one without wall brackets), while the required combination kit is FOR FREE.

The order code logic for filter combinations is shown below.

Wall mounting brackets for filter combinations FCA20 to FCA130 up to 16 bar are optionally available.

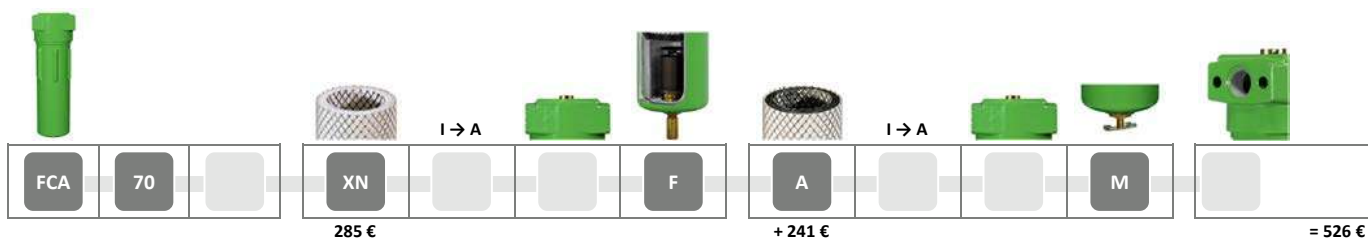
Order code for 2-stage filter combinations

Combination			1 st Filter				2 nd Filter				Combination
Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
FCA	20		W			M	V			M	
FWS	25	/50	V	S	D	F	ZN	S	D	F	W
FMA	30	/100	ZN		DC	ELC	XN		DC	ELC	 Wall mounting brackets (16 bar only) FCA20-70 20 € FCA90-130 30 € Prod.-grp. 08
FMS	50	/350	XN		OI	ELF	XXN		OI	ELF	
	70		XXN			ET	A			ET	
	...		A				CA				
	...		CA				...				
				


Filtration

Filter combinations

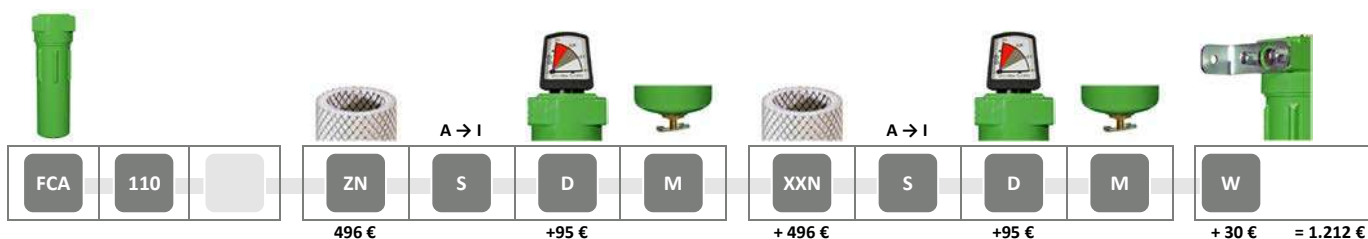
Order examples 2-stage filter combinations



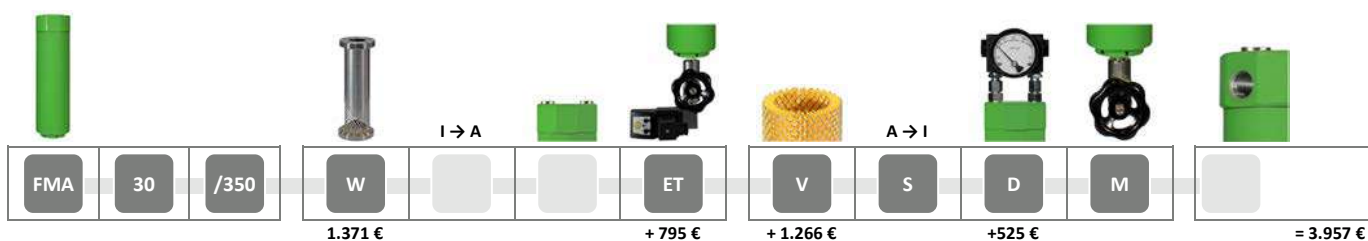
FCA	70		XN	I → A		F	A	I → A		M	
285 €			+ 241 €				= 526 €				



FCA	50		XN	I → A		D	ELF	CA	I → A	OI	M	W	
235 €			+ 95 €		+ 140 €		+ 234 €		+ 195 €		+ 20 €		= 919 €



FCA	110		ZN	A → I		S	D	M	XXN	A → I		S	D	M	W
496 €			+ 95 €				+ 496 €				+ 95 €		+ 30 €		= 1.212 €



FMA	30	/350	W	I → A			ET	V	A → I		S	D	M	
1.371 €			+ 795 €				+ 1.266 €		+ 525 €				= 3.957 €	

Order code for 3-stage filter combinations

Identical procedure like for a 2-stage filter combination, but with an additional 3rd stage filter.

Combination			1 st Filter				2 nd Filter				3 rd Filter				Combination
Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting



Differential pressure gauges

Scope of supply

Differential pressure gauge including installation parts ; without pipe sealing material ; single cardboard packing or shrink wrap ; transport packing is not included in the scope of supply and is charged separately. Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“
Operating manuals are available in English and German language.

Up to 16 bar



	FAD01-FCA	FAD01C-FCA	FAD01-FWS	FAD01C-FWS
Suitable for filter	FCA 30-190	FCA 30-190	FWS 170-2000	FWS 170-2000
Alarm contact / Interface	--- / ---	1 / ---	--- / ---	1 / ---
Price	95 €	155 €	175 €	235 €
Prod.-grp.	08	08	08	08

Up to 50 bar



	FAD02/50-FCA	FAD02/50C-FCA	FAD02/50-FWS	FAD02/50C-FWS
Suitable for filter	FCA 30-130	FCA 30-130	FWS 140-190	FWS 140-190
Alarm contact / Interface	--- / ---	1 / ---	--- / ---	1 / ---
Price	495 €	595 €	640 €	740 €
Prod.-grp.	09	09	09	09

Up to 350 bar



	FAD03/350-FM	FAD03/350C-FM
Suitable for filter	FMA 30-70, FMS 90-110	FMA 30-70, FMS 90-110
Alarm contact / Interface	--- / ---	1 / ---
Price	525 €	625 €
Prod.-grp.	09	09

Filtration

Filter accessories – FA.. series



Indicator

Scope of supply

Indicator including installation parts ; without pipe sealing material ; single cardboard packing or shrink wrap foil ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Up to 16 bar



	FAI01OI-B06	FAI02OI-B06	FAI02OI-B08	FAI01HI-B06
Suitable for filter	FCA 30-190	DPS 1-630 A / DSS 1-630	FWS 170-2000	FCA 30-190
Indication of	Oil	Oil	Oil	Humidity
Price	195 €	195 €	195 €	80 €
Prod.-grp.	08	08	08	08

Service

SP-FAI/IOP02	Spare indicator tube for FAI..OI	see Service Price list
SR-FAI01-OG	Spare indicator filling for FAI01HI	

Filtration
Filter accessories – FA.. series





Mounting kits for single filter and combinations with/without wall brackets

Scope of supply

Mounting kit including sealing gasket(s) ; single cardboard packing or shrink wrap foil ; transport packing is not included in the scope of supply and is charged separately.

For FCA filter series

	Number of filter			
	1	2	3	
Suitable for filter		FAM20-25/2-FCA	FAM20-25/3-FCA	Without wall brackets
Price		FCA 20-25 ; 16 bar	FCA 20-25 ; 16 bar	
Prod.-grp.		22 €	25 €	
Suitable for filter		FAM30-70/2-FCA	FAM30-70/3-FCA	
Price		FCA 30-70 ; 16 bar	FCA 30-70 ; 16 bar	
Prod.-grp.		22 €	25 €	
Suitable for filter		FAM90-130/2-FCA	FAM90-130/3-FCA	
Price		FCA 90-130 ; 16 bar	FCA 90-130 ; 16 bar	
Prod.-grp.		26 €	29 €	
Suitable for filter	FAW20-25/1-FCA	FAW20-25/2-FCA	FAW20-25/3-FCA	With wall brackets
Price	FCA 20-25 ; 16-50 bar	FCA 20-25 ; 16 bar	FCA 20-25 ; 16 bar	
Prod.-grp.	40 €	42 €	45 €	
Suitable for filter	FAW30-70/1-FCA	FAW30-70/2-FCA	FAW30-70/3-FCA	
Price	FCA 30-70 ; 16-50 bar	FCA 30-70 ; 16 bar	FCA 30-70 ; 16 bar	
Prod.-grp.	40 €	42 €	45 €	
Suitable for filter	FAW90-130/1-FCA	FAW90-130/2-FCA	FAW90-130/3-FCA	
Price	FCA 90-130 ; 16-50 bar	FCA 90-130 ; 16 bar	FCA 90-130 ; 16 bar	
Prod.-grp.	54 €	56 €	59 €	

Filtration

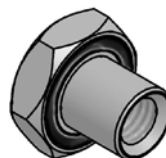
Filter accessories – FA.. series



Lock nuts filter elements

Scope of supply

Lock nut including sealing O-ring ; single cardboard packing or shrink wrap foil ; transport packing is not included in the scope of supply and is charged separately



	FA-PWL-E-M8-13-MS	FA-PWL-E-M8-13-SS	FA-PWL-E-M10-13-SS
Size housing tie rod	M8	M8	M10
Size hole in bottom end cap	Ø 13,5 mm	Ø 13,5 mm	Ø 13,5 mm
Material	Brass	Stainless steel	Stainless steel
Price	12 €	15 €	18 €
Prod.-grp.	08	08	08

Service

SP-SOS... O-ring (kits) for FCA, FMA, FMS filter housings and EFST, EFSTP filter elements

SP-PWG-FWS... Flange housing gaskets and flange connection gaskets FWS filter housings

SP-SGR-FWP... Aseptic gaskets FWP filter housings

see
Service
Price list

... and many more service parts.

Filtration

Filter elements for FST filter housings



Scope of supply

Filter element, sealed in a foil bag ; additional single cardboard packing ;
transport packing is not included in the scope of supply and is charged separately.

Filtration grades

V	Coarse filtration (3μ)	V5	Coarse filtration (5μ)		
ZN	General purpose filtration (1μ)				
XN	Fine filtration (0,01μ)	XXN	Super fine filtration (0,01μ)		
A	Activated carbon element	CA	Activated carbon cartridge	CMS	Desiccant cartridge
STPL	Sterile depth filtration (0,01μ)	SMPL	Sterile membrane filtration (0,01μ)	ST	Sterile depth filtration (0,01μ)
D25	Steam filtration (25μ)	D1	Steam filtration (1μ)		

EFST - Filter elements for FST filter FCA, FWS, FMA, FMS series

1 Standard filter elements

					Price	Prod. grp.
EFST 25 V	EFST 25 ZN	EFST 25 XN	EFST 25 XXN	EFST 25 A	70 €	11
EFST 30 V	EFST 30 ZN	EFST 30 XN	EFST 30 XXN	EFST 30 A	85 €	11
EFST 50 V	EFST 50 ZN	EFST 50 XN	EFST 50 XXN	EFST 50 A	95 €	11
EFST 70 V	EFST 70 ZN	EFST 70 XN	EFST 70 XXN	EFST 70 A	130 €	11
EFST 90 V	EFST 90 ZN	EFST 90 XN	EFST 90 XXN	EFST 90 A	165 €	11
EFST 110 V	EFST 110 ZN	EFST 110 XN	EFST 110 XXN	EFST 110 A	205 €	11
EFST 120 V	EFST 120 ZN	EFST 120 XN	EFST 120 XXN	EFST 120 A	240 €	11
EFST 130 V	EFST 130 ZN	EFST 130 XN	EFST 130 XXN	EFST 130 A	300 €	11
EFST 140 V	EFST 140 ZN	EFST 140 XN	EFST 140 XXN	EFST 140 A	360 €	11
EFST 170 V	EFST 170 ZN	EFST 170 XN	EFST 170 XXN	EFST 170 A	460 €	11
EFST 180 V	EFST 180 ZN	EFST 180 XN	EFST 180 XXN	EFST 180 A	630 €	11
EFST 190 V	EFST 190 ZN	EFST 190 XN	EFST 190 XXN	EFST 190 A	710 €	11

2 High temperature filter elements

	Price	Prod. grp.				Price	Prod. grp.
EFST 25 V5/HT	112 €	17	EFST 25 ZN/HT	EFST 25 XN/HT	EFST 25 XXN/HT	84 €	17
EFST 30 V5/HT	136 €	17	EFST 30 ZN/HT	EFST 30 XN/HT	EFST 30 XXN/HT	102 €	17
EFST 50 V5/HT	152 €	17	EFST 50 ZN/HT	EFST 50 XN/HT	EFST 50 XXN/HT	114 €	17
EFST 70 V5/HT	208 €	17	EFST 70 ZN/HT	EFST 70 XN/HT	EFST 70 XXN/HT	156 €	17
EFST 90 V5/HT	264 €	17	EFST 90 ZN/HT	EFST 90 XN/HT	EFST 90 XXN/HT	198 €	17
EFST 110 V5/HT	328 €	17	EFST 110 ZN/HT	EFST 110 XN/HT	EFST 110 XXN/HT	246 €	17
EFST 120 V5/HT	384 €	17	EFST 120 ZN/HT	EFST 120 XN/HT	EFST 120 XXN/HT	288 €	17
EFST 130 V5/HT	480 €	17	EFST 130 ZN/HT	EFST 130 XN/HT	EFST 130 XXN/HT	360 €	17
EFST 140 V5/HT	576 €	17	EFST 140 ZN/HT	EFST 140 XN/HT	EFST 140 XXN/HT	432 €	17
EFST 170 V5/HT	736 €	17	EFST 170 ZN/HT	EFST 170 XN/HT	EFST 170 XXN/HT	552 €	17
EFST 180 V5/HT	1.008 €	17	EFST 180 ZN/HT	EFST 180 XN/HT	EFST 180 XXN/HT	756 €	17
EFST 190 V5/HT	1.136 €	17	EFST 190 ZN/HT	EFST 190 XN/HT	EFST 190 XXN/HT	852 €	17

3 High temperature / chemical resistant filter elements

	Price	Prod. grp.				Price	Prod. grp.
EFST 140 V5/TC	648 €	17	EFST 140 ZN/TC	EFST 140 XN/TC	EFST 140 XXN/TC	504 €	17
EFST 170 V5/TC	828 €	17	EFST 170 ZN/TC	EFST 170 XN/TC	EFST 170 XXN/TC	644 €	17
EFST 180 V5/TC	1.134 €	17	EFST 180 ZN/TC	EFST 180 XN/TC	EFST 180 XXN/TC	882 €	17
EFST 190 V5/TC	1.278 €	17	EFST 190 ZN/TC	EFST 190 XN/TC	EFST 190 XXN/TC	994 €	17

4 High temperature / chemical resistant filter elements for EX applications

	Price	Prod. grp.				Price	Prod. grp.
EFST 140 V5/EX	684 €	17	EFST 140 ZN/EX	EFST 140 XN/EX	EFST 140 XXN/EX	540 €	17
EFST 170 V5/EX	874 €	17	EFST 170 ZN/EX	EFST 170 XN/EX	EFST 170 XXN/EX	690 €	17
EFST 180 V5/EX	1.197 €	17	EFST 180 ZN/EX	EFST 180 XN/EX	EFST 180 XXN/EX	945 €	17
EFST 190 V5/EX	1.349 €	17	EFST 190 ZN/EX	EFST 190 XN/EX	EFST 190 XXN/EX	1.065 €	17

Filtration

Filter elements for FST filter housings

EFST - Filter elements for FST filter FCA, FMA, FMS series

5 Water separator inserts

	Price	Prod. grp.
EFST 30 W	56 €	11
EFST 90 W	108 €	11
EFST 120 W	156 €	11
EFST 140 W	234 €	11
EFST 180 W	410 €	11

	Price	Prod. grp.
EFST 50 WHP	190 €	11
EFST 70 WHP	260 €	11
EFST 90 WHP	330 €	11
EFST 110 WHP	410 €	11

6 Activated carbon cartridges

	Price	Prod. grp.
EFST 50 CA	138 €	11
EFST 70 CA	189 €	11
EFST 90 CA	240 €	11
EFST 110 CA	298 €	11
EFST 120 CA	348 €	11
EFST 130 CA	435 €	11

7 Desiccant cartridges

	Price	Prod. grp.
EFST 90 CMS	216 €	11
EFST 110 CMS	269 €	11
EFST 120 CMS	314 €	11
EFST 130 CMS	392 €	11

EFSTP - Filter elements for FST process filter FWP, FWPV series

8 Industrial filtration grades

					Price	Prod. grp.
EFSTP 90 V	EFSTP 90 ZN	EFSTP 90 XN	EFSTP 90 XXN	EFSTP 90 A	160 €	18
EFSTP 120 V	EFSTP 120 ZN	EFSTP 120 XN	EFSTP 120 XXN	EFSTP 120 A	200 €	18
EFSTP 140 V	EFSTP 140 ZN	EFSTP 140 XN	EFSTP 140 XXN	EFSTP 140 A	340 €	18
EFSTP 180 V	EFSTP 180 ZN	EFSTP 180 XN	EFSTP 180 XXN	EFSTP 180 A	435 €	18
EFSTP 190 V	EFSTP 190 ZN	EFSTP 190 XN	EFSTP 190 XXN	EFSTP 190 A	530 €	18

9 Sterile filter elements

	Price	Prod. grp.		Price	Prod. grp.		Price	Prod. grp.
EFSTP 90 STPL	100 €	18	EFSTP 90 SMPL	150 €	18	EFSTP 90 ST	160 €	18
EFSTP 120 STPL	155 €	18	EFSTP 120 SMPL	233 €	18	EFSTP 120 ST	248 €	18
EFSTP 140 STPL	265 €	18	EFSTP 140 SMPL	398 €	18	EFSTP 140 ST	424 €	18
EFSTP 180 STPL	395 €	18	EFSTP 180 SMPL	593 €	18	EFSTP 180 ST	632 €	18
EFSTP 190 STPL	525 €	18	EFSTP 190 SMPL	788 €	18	EFSTP 190 ST	840 €	18

10 Steam filter elements

	Price	Prod. grp.		Price	Prod. grp.
EFSTP 90 D25	185 €	19	EFSTP 90 D1	185 €	19
EFSTP 120 D25	230 €	19	EFSTP 120 D1	230 €	19
EFSTP 140 D25	355 €	19	EFSTP 140 D1	355 €	19
EFSTP 180 D25	550 €	19	EFSTP 180 D1	550 €	19
EFSTP 190 D25	680 €	19	EFSTP 190 D1	680 €	19

Filtration

Filter elements for ZANDER filter housings



Scope of supply

Filter element, sealed in a foil bag ; additional single cardboard packing ;
transport packing is not included in the scope of supply and is charged separately.

Filtration grades

V	Coarse filtration (3μ)				
ZN	General purpose filtration (1μ)				
XN	Fine filtration (0,01μ)	XXN	Super fine filtration (0,01μ)		
A	Activated carbon element	CA	Activated carbon cartridge	CMS	Desiccant cartridge
STPL	Sterile depth filtration (0,01μ)	SMPL	Sterile membrane filtration (0,01μ)	ST	Sterile depth filtration (0,01μ)
D25	Steam filtration (25μ)	D1	Steam filtration (1μ)		

EFST - Filter elements for ZANDER filter G, F series

1 Standard filter elements

FST	ZANDER	FST	ZANDER	FST	ZANDER	FST	ZANDER	FST	ZANDER	Price	Prod. grp.
EFST 25 V	1030 V	EFST 25 ZN	1030 ZP	EFST 25 XN	1030 XP	EFST 25 XXN	1030 XP4	EFST 25 A	1030 A	70 €	11
EFST 30 V	1050 V	EFST 30 ZN	1050 ZP	EFST 30 XN	1050 XP	EFST 30 XXN	1050 XP4	EFST 30 A	1050 A	85 €	11
EFST 50 V	1070 V	EFST 50 ZN	1070 ZP	EFST 50 XN	1070 XP	EFST 50 XXN	1070 XP4	EFST 50 A	1070 A	95 €	11
EFST 70 V	1140 V	EFST 70 ZN	114 OZP	EFST 70 XN	1140 XP	EFST 70 XXN	1140 XP4	EFST 70 A	1140 A	130 €	11
EFST 90 V	2010 V	EFST 90 ZN	2010 ZP	EFST 90 XN	2010 XP	EFST 90 XXN	2010 XP4	EFST 90 A	2010 A	165 €	11
EFST 110 V	2020 V	EFST 110 ZN	2020 ZP	EFST 110 XN	2020 XP	EFST 110 XXN	2020 XP4	EFST 110 A	2020 A	205 €	11
EFST 120 V	2030 V	EFST 120 ZN	2030 ZP	EFST 120 XN	2030 XP	EFST 120 XXN	2030 XP4	EFST 120 A	2030 A	240 €	11
EFST 130 V	2050 V	EFST 130 ZN	2050 ZP	EFST 130 XN	2050 XP	EFST 130 XXN	2050 XP4	EFST 130 A	2050 A	300 €	11
EFST 140 V	3050 V	EFST 140 ZN	3050 ZP	EFST 140 XN	3050 XP	EFST 140 XXN	3050 XP4	EFST 140 A	3050 A	360 €	11
EFST 170 V	3075 V	EFST 170 ZN	3075 ZP	EFST 170 XN	3075 XP	EFST 170 XXN	3075 XP4	EFST 170 A	3075 A	460 €	11
EFST 180 V	5060 V	EFST 180 ZN	5060 ZP	EFST 180 XN	5060 XP	EFST 180 XXN	5060 XP4	EFST 180 A	5060 A	630 €	11
EFST 190 V	5075 V	EFST 190 ZN	5075 ZP	EFST 190 XN	5075 XP	EFST 190 XXN	5075 XP4	EFST 190 A	5075 A	710 €	11

2 High temperature filter elements

FST	ZANDER	FST	ZANDER	FST	ZANDER	Price	Prod. grp.
EFST 25 ZN/HT	1030 ZHTNX	EFST 25 XN/HT	1030 XHTNX	EFST 25 XXN/HT	1030 X4HTNX	84 €	17
EFST 30 ZN/HT	1050 ZHTNX	EFST 30 XN/HT	1050 XHTNX	EFST 30 XXN/HT	1050 X4HTNX	102 €	17
EFST 50 ZN/HT	1070 ZHTNX	EFST 50 XN/HT	1070 XHTNX	EFST 50 XXN/HT	1070 X4HTNX	114 €	17
EFST 70 ZN/HT	1140 ZHTNX	EFST 70 XN/HT	1140 XHTNX	EFST 70 XXN/HT	1140 X4HTNX	156 €	17
EFST 90 ZN/HT	2010 ZHTNX	EFST 90 XN/HT	2010 XHTNX	EFST 90 XXN/HT	2010 X4HTNX	198 €	17
EFST 110 ZN/HT	2020 ZHTNX	EFST 110 XN/HT	2020 XHTNX	EFST 110 XXN/HT	2020 X4HTNX	246 €	17
EFST 120 ZN/HT	2030 ZHTNX	EFST 120 XN/HT	2030 XHTNX	EFST 120 XXN/HT	2030 X4HTNX	288 €	17
EFST 130 ZN/HT	2050 ZHTNX	EFST 130 XN/HT	2050 XHTNX	EFST 130 XXN/HT	2050 X4HTNX	360 €	17
EFST 140 ZN/HT	3050 ZHTNX	EFST 140 XN/HT	3050 XHTNX	EFST 140 XXN/HT	3050 X4HTNX	432 €	17
EFST 170 ZN/HT	3075 ZHTNX	EFST 170 XN/HT	3075 XHTNX	EFST 170 XXN/HT	3075 X4HTNX	552 €	17
EFST 180 ZN/HT	5060 ZHTNX	EFST 180 XN/HT	5060 XHTNX	EFST 180 XXN/HT	5060 X4HTNX	756 €	17
EFST 190 ZN/HT	5075 ZHTNX	EFST 190 XN/HT	5075 XHTNX	EFST 190 XXN/HT	5075 X4HTNX	852 €	17

3 High temperature / chemical resistant filter elements

FST	ZANDER	FST	ZANDER	FST	ZANDER	Price	Prod. grp.
EFST 140 ZN/TC	3050 ZHTCR	EFST 140 XN/TC	3050 XHTCR	EFST 140 XXN/TC	3050 X4HTCR	504 €	17
EFST 170 ZN/TC	3075 ZHTCR	EFST 170 XN/TC	3075 XHTCR	EFST 170 XXN/TC	3075 X4HTCR	644 €	17
EFST 180 ZN/TC	5060 ZHTCR	EFST 180 XN/TC	5060 XHTCR	EFST 180 XXN/TC	5060 X4HTCR	882 €	17
EFST 190 ZN/TC	5075 ZHTCR	EFST 190 XN/TC	5075 XHTCR	EFST 190 XXN/TC	5075 X4HTCR	994 €	17

Filtration

Filter elements for ZANDER filter housings

EFST - Filter elements for ZANDER filter G series

4 Activated carbon cartridges

FST	ZANDER	Price	Prod. grp.
EFST 50 CA	KT 1012 A	138 €	11
EFST 70 CA	KT 1019 A	189 €	11
EFST 90 CA	KT 2016 A	240 €	11
EFST 110 CA	KT 2023 A	298 €	11
EFST 120 CA	KT 2033 A	348 €	11
EFST 130 CA	KT 2053 A	435 €	11

5 Desiccant cartridges

FST	ZANDER	Price	Prod. grp.
EFST 90 CMS	KT 2016 M	216 €	11
EFST 110 CMS	KT 2023 M	269 €	11
EFST 120 CMS	KT 2033 M	314 €	11
EFST 130 CMS	KT 2053 M	392 €	11

EFSTP, ERZA - Filter elements for ZANDER process filter S, G..ST series

6 Industrial filtration grades

FST	ZANDER	FST	ZANDER	FST	ZANDER	FST	ZANDER	FST	ZANDER	Price	Prod. grp.
EFSTP 90 V	V 09 T	EFSTP 90 ZN	ZP 09 T	EFSTP 90 XN	XP 09 T	EFSTP 90 XXN	XP4 09 T	EFSTP 90 A	A 09 T	160 €	18
EFSTP 120 V	V 13 T	EFSTP 120 ZN	ZP 13 T	EFSTP 120 XN	XP 13 T	EFSTP 120 XXN	XP4 13 T	EFSTP 120 A	A 13 T	200 €	18
EFSTP 140 V	V 14 T	EFSTP 140 ZN	ZP 14 T	EFSTP 140 XN	XP 14 T	EFSTP 140 XXN	XP4 14 T	EFSTP 140 A	A 14 T	340 €	18
EFSTP 180 V	V 18 T	EFSTP 180 ZN	ZP 18 T	EFSTP 180 XN	XP 18 T	EFSTP 180 XXN	XP4 18 T	EFSTP 180 A	A 18 T	435 €	18
EFSTP 190 V	V 19 T	EFSTP 190 ZN	ZP 19 T	EFSTP 190 XN	XP 19 T	EFSTP 190 XXN	XP4 19 T	EFSTP 190 A	A 19 T	530 €	18

7 Sterile filter elements

FST	ZANDER	Price	Prod. grp.	FST	ZANDER	Price	Prod. grp.	FST	ZANDER	Price	Prod. grp.
EFSTP 90 STPL	HB 09 T	100 €	18	EFSTP 90 SMPL	HM 09 T	150 €	18	EFSTP 90 ST	ST 09 T	160 €	18
EFSTP 120 STPL	HB 13 T	155 €	18	EFSTP 120 SMPL	HM 13 T	233 €	18	EFSTP 120 ST	ST 13 T	248 €	18
EFSTP 140 STPL	HB 14 T	265 €	18	EFSTP 140 SMPL	HM 14 T	398 €	18	EFSTP 140 ST	ST 14 T	424 €	18
EFSTP 180 STPL	HB 18 T	395 €	18	EFSTP 180 SMPL	HM 18 T	593 €	18	EFSTP 180 ST	ST 18 T	632 €	18
EFSTP 190 STPL	HB 19 T	525 €	18	EFSTP 190 SMPL	HM 19 T	788 €	18	EFSTP 190 ST	ST 19 T	840 €	18

FST	ZANDER	Price	Prod. grp.
ERZA 1080 PST	ST-R 1080	150 €	18
ERZA 1160 PST	ST-R 1160	180 €	18
ERZA 2016 PST	ST-R 2016	245 €	18
ERZA 2026 PST	ST-R 2026	290 €	18
ERZA 2038 PST	ST-R 2038	365 €	18
ERZA 2055 PST	ST-R 2055	465 €	18
ERZA 3055 PST	ST-R 3055	575 €	18
ERZA 3080 PST	ST-R 3080	645 €	18

8 Steam filter elements

FST	ZANDER	Price	Prod. grp.	FST	ZANDER	Price	Prod. grp.
EFSTP 90 D25	D 09 T 25µ	185 €	19	EFSTP 90 D1	D 09 T 1µ	185 €	19
EFSTP 120 D25	D 13 T 25µ	230 €	19	EFSTP 120 D1	D 13 T 1µ	230 €	19
EFSTP 140 D25	D 14 T 25µ	355 €	19	EFSTP 140 D1	D 14 T 1µ	355 €	19
EFSTP 180 D25	D 18 T 25µ	550 €	19	EFSTP 180 D1	D 18 T 1µ	550 €	19
EFSTP 190 D25	D 19 T 25µ	680 €	19	EFSTP 190 D1	D 19 T 1µ	680 €	19

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Filter elements for DOMNICK-HUNTER filter housings



Scope of supply

Filter element, sealed in a foil bag ; additional single cardboard packing ;
transport packing is not included in the scope of supply and is charged separately.

Filtration grades

V	Coarse filtration (3μ)				
ZN	General purpose filtration (1μ)				
XN	Fine filtration (0,01μ)	XXN	Super fine filtration (0,01μ)		
A	Activated carbon element	CA	Activated carbon cartridge	CHL	Catalyst cartridge
STPL	Sterile depth filtration (0,01μ)	SMPL	Sterile membrane filtration (0,01μ)		
D25	Steam filtration (25μ)	D1	Steam filtration (1μ)		

ERDH - Filter elements for DOMNICK-HUNTER filter Oil-X Plus series

1 Standard filter elements

FST	dh	FST	dh	FST	dh	FST	dh	FST	dh	Price	Prod. grp.
ERDH 009 V	K 009 PF	ERDH 009 ZN	K 009 AO	ERDH 009 XN	K 009 AA	ERDH 009 XXN	K 009 AX	ERDH 009 A	K 009 ACS	65 €	12
ERDH 017 V	K 017 PF	ERDH 017 ZN	K 017 AO	ERDH 017 XN	K 017 AA	ERDH 017 XXN	K 017 AX	ERDH 017 A	K 017 ACS	85 €	12
ERDH 030 V	K 030 PF	ERDH 030 ZN	K 030 AO	ERDH 030 XN	K 030 AA	ERDH 030 XXN	K 030 AX	ERDH 030 A	K 030 ACS	110 €	12
ERDH 058 V	K 058 PF	ERDH 058 ZN	K 058 AO	ERDH 058 XN	K 058 AA	ERDH 058 XXN	K 058 AX	ERDH 058 A	K 058 ACS	150 €	12
ERDH 145 V	K 145 PF	ERDH 145 ZN	K 145 AO	ERDH 145 XN	K 145 AA	ERDH 145 XXN	K 145 AX	ERDH 145 A	K 145 ACS	200 €	12
ERDH 220 V	K 220 PF	ERDH 220 ZN	K 220 AO	ERDH 220 XN	K 220 AA	ERDH 220 XXN	K 220 AX	ERDH 220 A	K 220 ACS	255 €	12
ERDH 330 V	K 330 PF	ERDH 330 ZN	K 330 AO	ERDH 330 XN	K 330 AA	ERDH 330 XXN	K 330 AX	ERDH 330 A	K 330 ACS	365 €	12
ERDH 430 V	K 430 PF	ERDH 430 ZN	K 430 AO	ERDH 430 XN	K 430 AA	ERDH 430 XXN	K 430 AX	ERDH 430 A	K 430 ACS	415 €	12
ERDH 620 V	K 620 PF	ERDH 620 ZN	K 620 AO	ERDH 620 XN	K 620 AA	ERDH 620 XXN	K 620 AX	ERDH 620 A	K 620 ACS	505 €	12

2 High temperature filter elements

FST	dh	FST	dh	FST	dh	Price	Prod. grp.
ERDH 009 ZN/HT	K 009 AOTS	ERDH 009 XN/HT	K 009 AATS	ERDH 009 XXN/HT	K 009 AXTS	78 €	17
ERDH 017 ZN/HT	K 017 AOTS	ERDH 017 XN/HT	K 017 AATS	ERDH 017 XXN/HT	K 017 AXTS	102 €	17
ERDH 030 ZN/HT	K 030 AOTS	ERDH 030 XN/HT	K 030 AATS	ERDH 030 XXN/HT	K 030 AXTS	132 €	17
ERDH 058 ZN/HT	K 058 AOTS	ERDH 058 XN/HT	K 058 AATS	ERDH 058 XXN/HT	K 058 AXTS	180 €	17
ERDH 145 ZN/HT	K 145 AOTS	ERDH 145 XN/HT	K 145 AATS	ERDH 145 XXN/HT	K 145 AXTS	240 €	17
ERDH 220 ZN/HT	K 220 AOTS	ERDH 220 XN/HT	K 220 AATS	ERDH 220 XXN/HT	K 220 AXTS	306 €	17
ERDH 330 ZN/HT	K 330 AOTS	ERDH 330 XN/HT	K 330 AATS	ERDH 330 XXN/HT	K 330 AXTS	438 €	17
ERDH 430 ZN/HT	K 430 AOTS	ERDH 430 XN/HT	K 430 AATS	ERDH 430 XXN/HT	K 430 AXTS	498 €	17
ERDH 620 ZN/HT	K 620 AOTS	ERDH 620 XN/HT	K 620 AATS	ERDH 620 XXN/HT	K 620 AXTS	606 €	17

3 High temperature / chemical resistant filter elements

FST	dh	FST	dh	FST	dh	Price	Prod. grp.
ERDH 145 ZN/TC	K 145 AOSS	ERDH 145 XN/TC	K 145 AASS	ERDH 145 XXN/TC	K 145 AXSS	280 €	17
ERDH 220 ZN/TC	K 220 AOSS	ERDH 220 XN/TC	K 220 AASS	ERDH 220 XXN/TC	K 220 AXSS	357 €	17
ERDH 330 ZN/TC	K 330 AOSS	ERDH 330 XN/TC	K 330 AASS	ERDH 330 XXN/TC	K 330 AXSS	511 €	17
ERDH 620 ZN/TC	K 620 AOSS	ERDH 620 XN/TC	K 620 AASS	ERDH 620 XXN/TC	K 620 AXSS	707 €	17

4 Activated carbon cartridges

FST	dh	Price	Prod. grp.
ERDH 006 CA	K 006 AC	80 €	12
ERDH 013 CA	K 013 AC	90 €	12
ERDH 025 CA	K 025 AC	95 €	12
ERDH 040 CA	K 040 AC	155 €	12
ERDH 065 CA	K 065 AC	195 €	12
ERDH 085 CA	K 085 AC	245 €	12

5 Catalyst cartridges

FST	dh	Price	Prod. grp.
ERDH 013 CHL	K 013 HC	295 €	12
ERDH 040 CHL	K 040 HC	475 €	12

6 Control air filter element

FST	dh	Price	Prod. grp.
ERDH 003 XN	K 003 AA	60 €	12

Filtration

Filter elements for DOMNICK-HUNTER filter housings

ERDHE - Filter elements for DOMNICK-HUNTER filter Oil-X Evolution series

7 Standard filter elements

FST	dh	FST	dh	FST	dh	FST	dh	FST	dh	Price	Prod. grp.
ERDHE 005 V	---	ERDHE 005 ZN	005 AO	ERDHE 005 XN	005 AA	ERDHE 005 XXN	---	ERDHE 005 A	005 ACS	65 €	12
ERDHE 010 V	---	ERDHE 010 ZN	010 AO	ERDHE 010 XN	010 AA	ERDHE 010 XXN	---	ERDHE 010 A	010 ACS	70 €	12
ERDHE 015 V	---	ERDHE 015 ZN	015 AO	ERDHE 015 XN	015 AA	ERDHE 015 XXN	---	ERDHE 015 A	015 ACS	85 €	12
ERDHE 020 V	---	ERDHE 020 ZN	020 AO	ERDHE 020 XN	020 AA	ERDHE 020 XXN	---	ERDHE 020 A	020 ACS	120 €	12
ERDHE 025 V	---	ERDHE 025 ZN	025 AO	ERDHE 025 XN	025 AA	ERDHE 025 XXN	---	ERDHE 025 A	025 ACS	155 €	12
ERDHE 030 V	---	ERDHE 030 ZN	030 AO	ERDHE 030 XN	030 AA	ERDHE 030 XXN	---	ERDHE 030 A	030 ACS	210 €	12
ERDHE 035 V	---	ERDHE 035 ZN	035 AO	ERDHE 035 XN	035 AA	ERDHE 035 XXN	---	ERDHE 035 A	035 ACS	245 €	12
ERDHE 040 V	---	ERDHE 040 ZN	040 AO	ERDHE 040 XN	040 AA	ERDHE 040 XXN	---	ERDHE 040 A	040 ACS	280 €	12
ERDHE 045 V	---	ERDHE 045 ZN	045 AO	ERDHE 045 XN	045 AA	ERDHE 045 XXN	---	ERDHE 045 A	045 ACS	370 €	12
ERDHE 050 V	---	ERDHE 050 ZN	050 AO	ERDHE 050 XN	050 AA	ERDHE 050 XXN	---	ERDHE 050 A	050 ACS	465 €	12
ERDHE 055 V	---	ERDHE 055 ZN	055 AO	ERDHE 055 XN	055 AA	ERDHE 055 XXN	---	ERDHE 055 A	055 ACS	615 €	12
ERDHE 100 V	---	ERDHE 100 ZN	100 AO	ERDHE 100 XN	100 AA	ERDHE 100 XXN	---	ERDHE 100 A	100 ACS	320 €	12
ERDHE 150 V	---	ERDHE 150 ZN	150 AO	ERDHE 150 XN	150 AA	ERDHE 150 XXN	---	ERDHE 150 A	150 ACS	390 €	12
ERDHE 200 V	---	ERDHE 200 ZN	200 AO	ERDHE 200 XN	200 AA	ERDHE 200 XXN	---	ERDHE 200 A	200 ACS	580 €	12
ERDHE 060 V	---	ERDHE 060 ZN	060 AO	ERDHE 060 XN	060 AA	ERDHE 060 XXN	---	ERDHE 060 A	060 ACS	410 €	12

EFSTP - Filter elements for DOMNICK-HUNTER process filter VBA series

8 Sterile filter elements

FST	dh	Price	Prod. grp.
EFSTP 90 STPL	ZCHB-BT	100 €	18
EFSTP 120 STPL	ZCHB-AT	155 €	18
EFSTP 140 STPL	ZCHB-1C	265 €	18
EFSTP 180 STPL	ZCHB-2C	395 €	18
EFSTP 190 STPL	ZCHB-3C	525 €	18

FST	dh	Price	Prod. grp.
EFSTP 90 SMPL	ZHFT/BT-E	150 €	18
EFSTP 120 SMPL	ZHFT/AT-E	233 €	18
EFSTP 140 SMPL	ZHFT/1C-E	398 €	18
EFSTP 180 SMPL	ZHFT/2C-E	593 €	18
EFSTP 190 SMPL	ZHFT/3C-E	788 €	18

9 Steam filter elements

FST	dh	Price	Prod. grp.
EFSTP 90 D25	ZCSSB-025T	185 €	19
EFSTP 120 D25	ZCSSA-025T	230 €	19
EFSTP 140 D25	ZCSS1-025T	355 €	19
EFSTP 180 D25	ZCSS2-025T	550 €	19
EFSTP 190 D25	ZCSS3-025T	680 €	19

FST	dh	Price	Prod. grp.
EFSTP 90 D1	ZCSSB-001T	185 €	19
EFSTP 120 D1	ZCSSA-001T	230 €	19
EFSTP 140 D1	ZCSS1-001T	355 €	19
EFSTP 180 D1	ZCSS2-001T	550 €	19
EFSTP 190 D1	ZCSS3-001T	680 €	19

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Filter elements for ATLAS-COPCO, BEKO, HANKISON filter housings



Scope of supply

Filter element, sealed in a foil bag ; additional single cardboard packing ;
transport packing is not included in the scope of supply and is charged separately.

Filtration grades

V	Coarse filtration (3μ)			
ZN, ZF	General purpose filtration (1μ)			
XN, XF	Fine filtration (0,01μ)	XXN	Super fine filtration (0,01μ)	
A	Activated carbon element			

ERAC - Filter elements for ATLAS-COPCO filter

Standard filter elements

FST	AC	FST	Atlas-Copco	FST	Atlas-Copco	FST	AC	FST	Atlas-Copco	Price	Prod. grp.
ERAC 009 V	---	ERAC 009 ZN	DD(p) 9	ERAC 009 XN	PD 9	ERAC 009 XXN	---	ERAC 009 A	QD 9	65 €	14
ERAC 017 V	---	ERAC 017 ZN	DD(p) 17	ERAC 017 XN	PD 17	ERAC 017 XXN	---	ERAC 017 A	QD 17	85 €	14
ERAC 032 V	---	ERAC 032 ZN	DD(p) 32	ERAC 032 XN	PD 32	ERAC 032 XXN	---	ERAC 032 A	QD 32	120 €	14
ERAC 044 V	---	ERAC 044 ZN	DD(p) 44	ERAC 044 XN	PD 44	ERAC 044 XXN	---	ERAC 044 A	QD 44	140 €	14
ERAC 060 V	---	ERAC 060 ZN	DD(p) 60	ERAC 060 XN	PD 60	ERAC 060 XXN	---	ERAC 060 A	QD 60	170 €	14
ERAC 120 V	---	ERAC 120 ZN	DD(p) 120	ERAC 120 XN	PD 120	ERAC 120 XXN	---	ERAC 120 A	QD 120	215 €	14
ERAC 150 V	---	ERAC 150 ZN	DD(p) 150	ERAC 150 XN	PD 150	ERAC 150 XXN	---	ERAC 150 A	QD 150	235 €	14
ERAC 175 V	---	ERAC 175 ZN	DD(p) 175	ERAC 175 XN	PD 175	ERAC 175 XXN	---	ERAC 175 A	QD 175	250 €	14
ERAC 260 V	---	ERAC 260 ZN	DD(p) 260	ERAC 260 XN	PD 260	ERAC 260 XXN	---	ERAC 260 A	QD 260	325 €	14
ERAC 390 V	---	ERAC 390 ZN	DD(p) 390	ERAC 390 XN	PD 390	ERAC 390 XXN	---	ERAC 390 A	QD 390	425 €	14
ERAC 520 V	---	ERAC 520 ZN	DD(p) 520	ERAC 520 XN	PD 520	ERAC 520 XXN	---	ERAC 520 A	QD 520	520 €	14
ERACF 520 V	---	ERACF 520 ZN	DD(p) 520 F	ERACF 520 XN	PD 520 F	ERACF 520 XXN	---	ERACF 520 A	QD 520 F	495 €	14
ERACF 780 V	---	ERACF 780 ZN	DD(p) 780 F	ERACF 780 XN	PD 780 F	ERACF 780 XXN	---	ERACF 780 A	QD 780 F	430 €	14

Note: size 260 and 280 are identical!

ERBE - Filter elements for BEKO filter

Filter elements for BEKO filter on request.

ERHK - Filter elements for HANKISON filter HF series

Standard filter elements

FST	Hankison	FST	Hankison	FST	Hankison	FST	Hankison	FST	Hankison	Price	Prod. grp.
ERHK 012 V	E9-12	ERHK 012 ZN	E7-12	ERHK 012 XN	E5-12	ERHK 012 XXN	E3-12	ERHK 012 A	E1-12	65 €	15
ERHK 016 V	E9-16	ERHK 016 ZN	E7-16	ERHK 016 XN	E5-16	ERHK 016 XXN	E3-16	ERHK 016 A	E1-16	90 €	15
ERHK 020 V	E9-20	ERHK 020 ZN	E7-20	ERHK 020 XN	E5-20	ERHK 020 XXN	E3-20	ERHK 020 A	E1-20	110 €	15
ERHK 024 V	E9-24	ERHK 024 ZN	E7-24	ERHK 024 XN	E5-24	ERHK 024 XXN	E3-24	ERHK 024 A	E1-24	140 €	15
ERHK 028 V	E9-28	ERHK 028 ZN	E7-28	ERHK 028 XN	E5-28	ERHK 028 XXN	E3-28	ERHK 028 A	E1-28	175 €	15
ERHK 032 V	E9-32	ERHK 032 ZN	E7-32	ERHK 032 XN	E5-32	ERHK 032 XXN	E3-32	ERHK 032 A	E1-32	195 €	15
ERHK 036 V	E9-36	ERHK 036 ZN	E7-36	ERHK 036 XN	E5-36	ERHK 036 XXN	E3-36	ERHK 036 A	E1-36	245 €	15
ERHK 040 V	E9-40	ERHK 040 ZN	E7-40	ERHK 040 XN	E5-40	ERHK 040 XXN	E3-40	ERHK 040 A	E1-40	290 €	15
ERHK 044 V	E9-44	ERHK 044 ZN	E7-44	ERHK 044 XN	E5-44	ERHK 044 XXN	E3-44	ERHK 044 A	E1-44	330 €	15
ERHK 048 V	E9-48	ERHK 048 ZN	E7-48	ERHK 048 XN	E5-48	ERHK 048 XXN	E3-48	ERHK 048 A	E1-48	360 €	15
ERHK 052 V	E9-52	ERHK 052 ZN	E7-52	ERHK 052 XN	E5-52	ERHK 052 XXN	E3-52	ERHK 052 A	E1-52	395 €	15
ERHK 054 V	E9-54	ERHK 054 ZN	E7-54	ERHK 054 XN	E5-54	ERHK 054 XXN	E3-54	ERHK 054 A	E1-54	395 €	15

Note: size 52 and PV are identical!

Filtration

Filter elements for HIROSS, OMEGA AIR, OMI filter housings

ERHI - Filter elements for HIROSS filter

Standard filter elements

FST	Hiross	FST	Hiross	FST	Hiross	FST	Hiross	Price	Prod. grp.
ERHI 005 V	Q 005	ERHI 005 ZF	P 005	ERHI 005 XF	S 005	ERHI 005 A	C 005	40 €	15
ERHI 010 V	Q 010,006,004	ERHI 010 ZF	P 010,006,004	ERHI 010 XF	S 010,006,004	ERHI 010 A	C 010,006,004	45 €	15
ERHI 016 V	Q 016,009,007	ERHI 016 ZF	P 016,009,007	ERHI 016 XF	S 016,009,007	ERHI 016 A	C 016,009,007	55 €	15
ERHI 022 V	Q 022,020,015	ERHI 022 ZF	P 022,020,015	ERHI 022 XF	S 022,020,015	ERHI 022 A	C 022,020,015	65 €	15
ERHI 030 V	Q 030,024	ERHI 030 ZF	P 030,024	ERHI 030 XF	S 030,024	ERHI 030 A	C 030,024	75 €	15
ERHI 045 V	Q 045,035	ERHI 045 ZF	P 045,035	ERHI 045 XF	S 045,035	ERHI 045 A	C 045,035	85 €	15
ERHI 072 V	Q 072,060	ERHI 072 ZF	P 072,060	ERHI 072 XF	S 072,060	ERHI 072 A	C 072,060	110 €	15
ERHI 135 V	Q 135,110,090	ERHI 135 ZF	P 135,110,090	ERHI 135 XF	S 135,110,090	ERHI 135 A	C 135,110,090	130 €	15
ERHI 175 V	Q 175	ERHI 175 ZF	P 175	ERHI 175 XF	S 175	ERHI 175 A	C 175	185 €	15
ERHI 205 V	Q 205,151,120	ERHI 205 ZF	P 205,151,120	ERHI 205 XF	S 205,151,120	ERHI 205 A	C 205,151,120	275 €	15
ERHI 250 V	Q 250,180,150	ERHI 250 ZF	P 250,180,150	ERHI 250 XF	S 250,180,150	ERHI 250 A	C 250,180,150	310 €	15
ERHI 280 V	Q 280,240	ERHI 280 ZF	P 280,240	ERHI 280 XF	S 280,240	ERHI 280 A	C 280,240	390 €	15
ERHI 300 V	Q 300	ERHI 300 ZF	P 300	ERHI 300 XF	S 300	ERHI 300 A	C 300	395 €	15
ERHI 370 V	Q 370	ERHI 370 ZF	P 370	ERHI 370 XF	S 370	ERHI 370 A	C 370	490 €	15

EROA - Filter elements for OMEGA AIR filter

Standard filter elements

FST	OMEGA AIR	FST	OMEGA AIR	FST	OMEGA AIR	FST	OMEGA AIR	Price	Prod. grp.
EROA-06050P-V	06050 P	EROA-06050M-ZF	06050 M	EROA-06050S-XF	06050 S	EROA-06050A-A	06050 A	40 €	16
EROA-07050P-V	07050 P	EROA-07050M-ZF	07050 M	EROA-07050S-XF	07050 S	EROA-07050A-A	07050 A	50 €	16
EROA-14050P-V	14050 P	EROA-14050M-ZF	14050 M	EROA-14050S-XF	14050 S	EROA-14050A-A	14050 A	60 €	16
EROA-12075P-V	12075 P	EROA-12075M-ZF	12075 M	EROA-12075S-XF	12075 S	EROA-12075A-A	12075 A	75 €	16
EROA-22075P-V	22075 P	EROA-22075M-ZF	22075 M	EROA-22075S-XF	22075 S	EROA-22075A-A	22075 A	95 €	16
EROA-32075P-V	32075 P	EROA-32075M-ZF	32075 M	EROA-32075S-XF	32075 S	EROA-32075A-A	32075 A	115 €	16
EROA-50075P-V	50075 P	EROA-50075M-ZF	50075 M	EROA-50075S-XF	50075 S	EROA-50075A-A	50075 A	145 €	16
EROA-51090P-V	51090 P	EROA-51090M-ZF	51090 M	EROA-51090S-XF	51090 S	EROA-51090A-A	51090 A	205 €	16
EROA-76090P-V	76090 P	EROA-76090M-ZF	76090 M	EROA-76090S-XF	76090 S	EROA-76090A-A	76090 A	250 €	16
EROA-51140P-V	51140 P	EROA-51140M-ZF	51140 M	EROA-51140S-XF	51140 S	EROA-51140A-A	51140 A	315 €	16
EROA-75140P-V	75140 P	EROA-75140M-ZF	75140 M	EROA-75140S-XF	75140 S	EROA-75140A-A	75140 A	365 €	16

EROM - Filter elements for OMI filter

Standard filter elements

FST	OMI	FST	OMI	FST	OMI	FST	OMI	Price	Prod. grp.
EROM-0004QF-V	0004 QF	EROM-0004PF-ZF	0004 PF	EROM-0004HF-XF	0004 HF	EROM-0004CF-A	0004 CF	45 €	16
EROM-0008QF-V	0008 QF	EROM-0008PF-ZF	0008 PF	EROM-0008HF-XF	0008 HF	EROM-0008CF-A	0008 CF	55 €	16
EROM-0016QF-V	0016 QF	EROM-0016PF-ZF	0016 PF	EROM-0016HF-XF	0016 HF	EROM-0016CF-A	0016 CF	60 €	16
EROM-0030QF-V	0030 QF	EROM-0030PF-ZF	0030 PF	EROM-0030HF-XF	0030 HF	EROM-0030CF-A	0030 CF	65 €	16
EROM-0025QF-V	0025 QF	EROM-0025PF-ZF	0025 PF	EROM-0025HF-XF	0025 HF	EROM-0025CF-A	0025 CF	70 €	16
EROM-0036QF-V	0036 QF	EROM-0036PF-ZF	0036 PF	EROM-0036HF-XF	0036 HF	EROM-0036CF-A	0036 CF	75 €	16
EROM-0072QF-V	0072 QF	EROM-0072PF-ZF	0072 PF	EROM-0072HF-XF	0072 HF	EROM-0072CF-A	0072 CF	85 €	16
EROM-0060QF-V	0060 QF	EROM-0060PF-ZF	0060 PF	EROM-0060HF-XF	0060 HF	EROM-0060CF-A	0060 CF	95 €	16
EROM-0070QF-V	0070 QF	EROM-0070PF-ZF	0070 PF	EROM-0070HF-XF	0070 HF	EROM-0070CF-A	0070 CF	105 €	16
EROM-0090QF-V	0090 QF	EROM-0090PF-ZF	0090 PF	EROM-0090HF-XF	0090 HF	EROM-0090CF-A	0090 CF	125 €	16
EROM-0120QF-V	0120 QF	EROM-0120PF-ZF	0120 PF	EROM-0120HF-XF	0120 HF	EROM-0120CF-A	0120 CF	160 €	16
EROM-0190QF-V	0190 QF	EROM-0190PF-ZF	0190 PF	EROM-0190HF-XF	0190 HF	EROM-0190CF-A	0190 CF	185 €	16
EROM-0185QF-V	0185 QF	EROM-0185PF-ZF	0185 PF	EROM-0185HF-XF	0185 HF	EROM-0185CF-A	0185 CF	225 €	16
EROM-0280QF-V	0280 QF	EROM-0280PF-ZF	0280 PF	EROM-0280HF-XF	0280 HF	EROM-0280CF-A	0280 CF	285 €	16
EROM-0350QF-V	0350 QF	EROM-0350PF-ZF	0350 PF	EROM-0350HF-XF	0350 HF	EROM-0350CF-A	0350 CF	325 €	16
EROM-0440QF-V	0440 QF	EROM-0440PF-ZF	0440 PF	EROM-0440HF-XF	0440 HF	EROM-0440CF-A	0440 CF	375 €	16

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Filter elements for ULTRAFILTER/DONALDSON filter housings



Scope of supply

Filter element, sealed in a foil bag ; additional single cardboard packing ;
transport packing is not included in the scope of supply and is charged separately.

Filtration grades

V	Coarse filtration (3μ)				
ZN	General purpose filtration (1μ)				
XN	Fine filtration (0,01μ)	XXN	Super fine filtration (0,01μ)		
A	Activated carbon element				
STPL	Sterile depth filtration (0,01μ)	SMPL	Sterile membrane filtration (0,01μ)	ST	Sterile depth filtration (0,01μ)
D25	Steam filtration (25μ)	D1	Steam filtration (1μ)	STBE	Sterile depth filtration (0,01μ)

ERUF - Filter elements for ULTRAFILTER 80 series filter

1 Standard filter elements

FST	ultrafilter	FST	ultrafilter	FST	ultrafilter	ultrafilter	Price	Prod. grp.
ERUF 03/1 V	V-PE 03/1	ERUF 03/1 ZN	FF 03/1	ERUF 03/1 XN	MF 03/1	SMF 03/1	70 €	15
ERUF 03/1,5 V	V-PE 03/1,5	ERUF 03/1,5 ZN	FF 03/1,5	ERUF 03/1,5 XN	MF 03/1,5	SMF 03/1,5	80 €	15
ERUF 04/1,5 V	V-PE 04/1,5	ERUF 04/1,5 ZN	FF 04/1,5	ERUF 04/1,5 XN	MF 04/1,5	SMF 04/1,5	95 €	15
ERUF 04/2,5 V	V-PE 04/2,5	ERUF 04/2,5 ZN	FF 04/2,5	ERUF 04/2,5 XN	MF 04/2,5	SMF 04/2,5	115 €	15
ERUF 05/2,5 V	V-PE 05/2,5	ERUF 05/2,5 ZN	FF 05/2,5	ERUF 05/2,5 XN	MF 05/2,5	SMF 05/2,5	140 €	15
ERUF 05/3 V	V-PE 05/3	ERUF 05/3 ZN	FF 05/3	ERUF 05/3 XN	MF 05/3	SMF 05/3	170 €	15
ERUF 10/3 V	V-PE 10/3	ERUF 10/3 ZN	FF 10/3	ERUF 10/3 XN	MF 10/3	SMF 10/3	225 €	15
ERUF 15/3 V	V-PE 15/3	ERUF 15/3 ZN	FF 15/3	ERUF 15/3 XN	MF 15/3	SMF 15/3	295 €	15
ERUF 20/3 V	V-PE 20/3	ERUF 20/3 ZN	FF 20/3	ERUF 20/3 XN	MF 20/3	SMF 20/3	350 €	15
ERUF 30/3 V	V-PE 30/3	ERUF 30/3 ZN	FF 30/3	ERUF 30/3 XN	MF 30/3	SMF 30/3	450 €	15
ERUF 30/5 V	V-PE 30/5	ERUF 30/5 ZN	FF 30/5	ERUF 30/5 XN	MF 30/5	SMF 30/5	595 €	15

FST	ultrafilter	FST	ultrafilter	Price	Prod. grp.
ERUF 03/1 XXN	---	ERUF 03/1 A	A 03/1	70 €	15
ERUF 03/1,5 XXN	---	ERUF 03/1,5 A	A 03/1,5	80 €	15
ERUF 04/1,5 XXN	---	ERUF 04/1,5 A	A 04/1,5	95 €	15
ERUF 04/2,5 XXN	---	ERUF 04/2,5 A	A 04/2,5	115 €	15
ERUF 05/2,5 XXN	---	ERUF 05/2,5 A	A 05/2,5	140 €	15
ERUF 05/3 XXN	---	ERUF 05/3 A	A 05/3	170 €	15
ERUF 10/3 XXN	---	ERUF 10/3 A	A 10/3	225 €	15
ERUF 15/3 XXN	---	ERUF 15/3 A	A 15/3	295 €	15
ERUF 20/3 XXN	---	ERUF 20/3 A	A 20/3	350 €	15
ERUF 30/3 XXN	---	ERUF 30/3 A	A 30/3	450 €	15
ERUF 30/5 XXN	---	ERUF 30/5 A	A 30/5	595 €	15

Filtration

Filter elements for ULTRAFILTER/DONALDSON filter housings

ERUF - Filter elements for ULTRAFILTER/DONALDSON 90 series filter

2 Standard filter elements

FST	ultrafilter	FST	ultrafilter	FST	ultrafilter	ultrafilter	Price	Prod. grp.
ERUF 02/05 V	V-PE 02/05	ERUF 02/05 ZN	FF 02/05	ERUF 02/05 XN	MF 02/05	SMF 02/05	50 €	13
ERUF 03/05 V	V-PE 03/05	ERUF 03/05 ZN	FF 03/05	ERUF 03/05 XN	MF 03/05	SMF 03/05	55 €	13
ERUF 03/10 V	V-PE 03/10	ERUF 03/10 ZN	FF 03/10	ERUF 03/10 XN	MF 03/10	SMF 03/10	65 €	13
ERUF 04/10 V	V-PE 04/10	ERUF 04/10 ZN	FF 04/10	ERUF 04/10 XN	MF 04/10	SMF 04/10	75 €	13
ERUF 04/20 V	V-PE 04/20	ERUF 04/20 ZN	FF 04/20	ERUF 04/20 XN	MF 04/20	SMF 04/20	85 €	13
ERUF 05/20 V	V-PE 05/20	ERUF 05/20 ZN	FF 05/20	ERUF 05/20 XN	MF 05/20	SMF 05/20	100 €	13
ERUF 05/25 V	V-PE 05/25	ERUF 05/25 ZN	FF 05/25	ERUF 05/25 XN	MF 05/25	SMF 05/25	125 €	13
ERUF 07/25 V	V-PE 07/25	ERUF 07/25 ZN	FF 07/25	ERUF 07/25 XN	MF 07/25	SMF 07/25	155 €	13
ERUF 07/30 V	V-PE 07/30	ERUF 07/30 ZN	FF 07/30	ERUF 07/30 XN	MF 07/30	SMF 07/30	200 €	13
ERUF 10/30 V	V-PE 10/30	ERUF 10/30 ZN	FF 10/30	ERUF 10/30 XN	MF 10/30	SMF 10/30	240 €	13
ERUF 15/30 V	V-PE 15/30	ERUF 15/30 ZN	FF 15/30	ERUF 15/30 XN	MF 15/30	SMF 15/30	305 €	13
ERUF 20/30 V	V-PE 20/30	ERUF 20/30 ZN	FF 20/30	ERUF 20/30 XN	MF 20/30	SMF 20/30	370 €	13
ERUF 30/30 V	V-PE 30/30	ERUF 30/30 ZN	FF 30/30	ERUF 30/30 XN	MF 30/30	SMF 30/30	450 €	13
ERUF 30/50 V	V-PE 30/50	ERUF 30/50 ZN	FF 30/50	ERUF 30/50 XN	MF 30/50	SMF 30/50	575 €	13

FST	ultrafilter	FST	ultrafilter	Price	Prod. grp.
ERUF 02/05 XXN	---	ERUF 02/05 A	AK 02/05	50 €	13
ERUF 03/05 XXN	---	ERUF 03/05 A	AK 03/05	55 €	13
ERUF 03/10 XXN	---	ERUF 03/10 A	AK 03/10	65 €	13
ERUF 04/10 XXN	---	ERUF 04/10 A	AK 04/10	75 €	13
ERUF 04/20 XXN	---	ERUF 04/20 A	AK 04/20	85 €	13
ERUF 05/20 XXN	---	ERUF 05/20 A	AK 05/20	100 €	13
ERUF 05/25 XXN	---	ERUF 05/25 A	AK 05/25	125 €	13
ERUF 07/25 XXN	---	ERUF 07/25 A	AK 07/25	155 €	13
ERUF 07/30 XXN	---	ERUF 07/30 A	AK 07/30	200 €	13
ERUF 10/30 XXN	---	ERUF 10/30 A	AK 10/30	240 €	13
ERUF 15/30 XXN	---	ERUF 15/30 A	AK 15/30	305 €	13
ERUF 20/30 XXN	---	ERUF 20/30 A	AK 20/30	370 €	13
ERUF 30/30 XXN	---	ERUF 30/30 A	AK 30/30	450 €	13
ERUF 30/50 XXN	---	ERUF 30/50 A	AK 30/50	575 €	13

3 High temperature filter elements

FST	ultrafilter	FST	ultrafilter	ultrafilter	FST	ultrafilter	Price	Prod. grp.
ERUF 02/05 ZN/HT	FF 02/05 HTNX	ERUF 02/05 XN/HT	MF 02/05 HTNX	SMF 02/05 HTNX	ERUF 02/05 XXN/HT	---	60 €	17
ERUF 03/05 ZN/HT	FF 03/05 HTNX	ERUF 03/05 XN/HT	MF 03/05 HTNX	SMF 03/05 HTNX	ERUF 03/05 XXN/HT	---	66 €	17
ERUF 03/10 ZN/HT	FF 03/10 HTNX	ERUF 03/10 XN/HT	MF 03/10 HTNX	SMF 03/10 HTNX	ERUF 03/10 XXN/HT	---	78 €	17
ERUF 04/10 ZN/HT	FF 04/10 HTNX	ERUF 04/10 XN/HT	MF 04/10 HTNX	SMF 04/10 HTNX	ERUF 04/10 XXN/HT	---	90 €	17
ERUF 04/20 ZN/HT	FF 04/20 HTNX	ERUF 04/20 XN/HT	MF 04/20 HTNX	SMF 04/20 HTNX	ERUF 04/20 XXN/HT	---	102 €	17
ERUF 05/20 ZN/HT	FF 05/20 HTNX	ERUF 05/20 XN/HT	MF 05/20 HTNX	SMF 05/20 HTNX	ERUF 05/20 XXN/HT	---	120 €	17
ERUF 05/25 ZN/HT	FF 05/25 HTNX	ERUF 05/25 XN/HT	MF 05/25 HTNX	SMF 05/25 HTNX	ERUF 05/25 XXN/HT	---	150 €	17
ERUF 07/25 ZN/HT	FF 07/25 HTNX	ERUF 07/25 XN/HT	MF 07/25 HTNX	SMF 07/25 HTNX	ERUF 07/25 XXN/HT	---	186 €	17
ERUF 07/30 ZN/HT	FF 07/30 HTNX	ERUF 07/30 XN/HT	MF 07/30 HTNX	SMF 07/30 HTNX	ERUF 07/30 XXN/HT	---	240 €	17
ERUF 10/30 ZN/HT	FF 10/30 HTNX	ERUF 10/30 XN/HT	MF 10/30 HTNX	SMF 10/30 HTNX	ERUF 10/30 XXN/HT	---	288 €	17
ERUF 15/30 ZN/HT	FF 15/30 HTNX	ERUF 15/30 XN/HT	MF 15/30 HTNX	SMF 15/30 HTNX	ERUF 15/30 XXN/HT	---	366 €	17
ERUF 20/30 ZN/HT	FF 20/30 HTNX	ERUF 20/30 XN/HT	MF 20/30 HTNX	SMF 20/30 HTNX	ERUF 20/30 XXN/HT	---	444 €	17
ERUF 30/30 ZN/HT	FF 30/30 HTNX	ERUF 30/30 XN/HT	MF 30/30 HTNX	SMF 30/30 HTNX	ERUF 30/30 XXN/HT	---	540 €	17
ERUF 30/50 ZN/HT	FF 30/50 HTNX	ERUF 30/50 XN/HT	MF 30/50 HTNX	SMF 30/50 HTNX	ERUF 30/50 XXN/HT	---	690 €	17

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Filtration

Filter elements for ULTRAFILTER/DONALDSON filter housings

ERUF - Filter elements for ULTRAFILTER/DONALDSON 90 series process filter (P-EG, P-BE)

4 Industrial filtration grades

FST	ultrafilter	FST	ultrafilter	FST	ultrafilter	ultrafilter	Price	Prod. grp.
ERUF 03/10 PV	P-PE 03/10	ERUF 03/10 PZN	P-FF 03/10	ERUF 03/10 PXN	P-MF 03/10	P-SMF 03/10	94 €	18
ERUF 04/10 PV	P-PE 04/10	ERUF 04/10 PZN	P-FF 04/10	ERUF 04/10 PXN	P-MF 04/10	P-SMF 04/10	98 €	18
ERUF 04/20 PV	P-PE 04/20	ERUF 04/20 PZN	P-FF 04/20	ERUF 04/20 PXN	P-MF 04/20	P-SMF 04/20	106 €	18
ERUF 05/20 PV	P-PE 05/20	ERUF 05/20 PZN	P-FF 05/20	ERUF 05/20 PXN	P-MF 05/20	P-SMF 05/20	136 €	18
ERUF 05/25 PV	P-PE 05/25	ERUF 05/25 PZN	P-FF 05/25	ERUF 05/25 PXN	P-MF 05/25	P-SMF 05/25	162 €	18
ERUF 07/25 PV	P-PE 07/25	ERUF 07/25 PZN	P-FF 07/25	ERUF 07/25 PXN	P-MF 07/25	P-SMF 07/25	191 €	18
ERUF 07/30 PV	P-PE 07/30	ERUF 07/30 PZN	P-FF 07/30	ERUF 07/30 PXN	P-MF 07/30	P-SMF 07/30	242 €	18
ERUF 10/30 PV	P-PE 10/30	ERUF 10/30 PZN	P-FF 10/30	ERUF 10/30 PXN	P-MF 10/30	P-SMF 10/30	293 €	18
ERUF 15/30 PV	P-PE 15/30	ERUF 15/30 PZN	P-FF 15/30	ERUF 15/30 PXN	P-MF 15/30	P-SMF 15/30	349 €	18
ERUF 20/30 PV	P-PE 20/30	ERUF 20/30 PZN	P-FF 20/30	ERUF 20/30 PXN	P-MF 20/30	P-SMF 20/30	434 €	18
ERUF 30/30 PV	P-PE 30/30	ERUF 30/30 PZN	P-FF 30/30	ERUF 30/30 PXN	P-MF 30/30	P-SMF 30/30	523 €	18
ERUF 30/50 PV	P-PE 30/50	ERUF 30/50 PZN	P-FF 30/50	ERUF 30/50 PXN	P-MF 30/50	P-SMF 30/50	608 €	18

FST	ultrafilter	FST	ultrafilter	Price	Prod. grp.
ERUF 03/10 PXXN	---	ERUF 03/10PA	P-AK 03/10	94 €	18
ERUF 04/10 PXXN	---	ERUF 04/10PA	P-AK 04/10	98 €	18
ERUF 04/20 PXXN	---	ERUF 04/20PA	P-AK 04/20	106 €	18
ERUF 05/20 PXXN	---	ERUF 05/20PA	P-AK 05/20	136 €	18
ERUF 05/25 PXXN	---	ERUF 05/25PA	P-AK 05/25	162 €	18
ERUF 07/25 PXXN	---	ERUF 07/25PA	P-AK 07/25	191 €	18
ERUF 07/30 PXXN	---	ERUF 07/30PA	P-AK 07/30	242 €	18
ERUF 10/30 PXXN	---	ERUF 10/30PA	P-AK 10/30	293 €	18
ERUF 15/30 PXXN	---	ERUF 15/30PA	P-AK 15/30	349 €	18
ERUF 20/30 PXXN	---	ERUF 20/30PA	P-AK 20/30	434 €	18
ERUF 30/30 PXXN	---	ERUF 30/30PA	P-AK 30/30	523 €	18
ERUF 30/50 PXXN	---	ERUF 30/50PA	P-AK 30/50	608 €	18

5 Sterile filter elements

FST	ultrafilter	Price	Prod. grp.
ERUF 03/10 PST	P-SRF 03/10	110 €	18
ERUF 04/10 PST	P-SRF 04/10	115 €	18
ERUF 04/20 PST	P-SRF 04/20	125 €	18
ERUF 05/20 PST	P-SRF 05/20	160 €	18
ERUF 05/25 PST	P-SRF 05/25	190 €	18
ERUF 07/25 PST	P-SRF 07/25	225 €	18
ERUF 07/30 PST	P-SRF 07/30	285 €	18
ERUF 10/30 PST	P-SRF 10/30	345 €	18
ERUF 15/30 PST	P-SRF 15/30	410 €	18
ERUF 20/30 PST	P-SRF 20/30	510 €	18
ERUF 30/30 PST	P-SRF 30/30	615 €	18
ERUF 30/50 PST	P-SRF 30/50	715 €	18

FST	ultrafilter	Price	Prod. grp.
ERUF 03/10 PSTBE	P-BE 03/10	110 €	18
ERUF 05/25 PSTBE	P-BE 05/25	190 €	18
ERUF 05/30 PSTBE	P-BE 05/30	265 €	18
ERUF 10/30 PSTBE	P-BE 10/30	345 €	18
ERUF 20/30 PSTBE	P-BE 20/30	510 €	18
ERUF 30/30 PSTBE	P-BE 30/30	615 €	18
ERUF 30/50 PSTBE	P-BE 30/50	715 €	18

FST	ultrafilter	Price	Prod. grp.
EFSTP 140 STPL	SRF N 10/3 code 7	265 €	18
EFSTP 180 STPL	SRF N 20/3 code 7	395 €	18
EFSTP 190 STPL	SRF N 30/3 code 7	525 €	18

FST	ultrafilter	Price	Prod. grp.
EFSTP 140 SMPL	PF-PT 10/3 code 7	398 €	18
EFSTP 180 SMPL	PF-PT 20/3 code 7	593 €	18
EFSTP 190 SMPL	PF-PT 30/3 code 7	788 €	18

Filtration

Filter elements for ULTRAFILTER/DONALDSON filter housings

ERUF - Filter elements for ULTRAFILTER/DONALDSON 90 series process filter (P-EG, P-BE)

6 Steam filter elements

FST	ultrafilter	Price	Prod. grp.
ERUF 03/10 PD25	P-GS 03/10 25μ	135 €	19
ERUF 04/10 PD25	P-GS 04/10 25μ	154 €	19
ERUF 04/20 PD25	P-GS 04/20 25μ	162 €	19
ERUF 05/20 PD25	P-GS 05/20 25μ	185 €	19
ERUF 05/25 PD25	P-GS 05/25 25μ	225 €	19
ERUF 07/25 PD25	P-GS 07/25 25μ	280 €	19
ERUF 07/30 PD25	P-GS 07/30 25μ	330 €	19
ERUF 10/30 PD25	P-GS 10/30 25μ	415 €	19
ERUF 15/30 PD25	P-GS 15/30 25μ	515 €	19
ERUF 20/30 PD25	P-GS 20/30 25μ	595 €	19
ERUF 30/30 PD25	P-GS 30/30 25μ	695 €	19
ERUF 30/50 PD25	P-GS 30/50 25μ	920 €	19

FST	ultrafilter	Price	Prod. grp.
EFSTP 140 D25	GS N 10/3 25μ	355 €	19
EFSTP 180 D25	GS N 20/3 25μ	550 €	19
EFSTP 190 D25	GS N 30/3 25μ	680 €	19

FST	ultrafilter	Price	Prod. grp.
ERUF 03/10 PD1	P-GS 03/10 1μ	135 €	19
ERUF 04/10 PD1	P-GS 04/10 1μ	154 €	19
ERUF 04/20 PD1	P-GS 04/20 1μ	162 €	19
ERUF 05/20 PD1	P-GS 05/20 1μ	185 €	19
ERUF 05/25 PD1	P-GS 05/25 1μ	225 €	19
ERUF 07/25 PD1	P-GS 07/25 1μ	280 €	19
ERUF 07/30 PD1	P-GS 07/30 1μ	330 €	19
ERUF 10/30 PD1	P-GS 10/30 1μ	415 €	19
ERUF 15/30 PD1	P-GS 15/30 1μ	515 €	19
ERUF 20/30 PD1	P-GS 20/30 1μ	595 €	19
ERUF 30/30 PD1	P-GS 30/30 1μ	695 €	19
ERUF 30/50 PD1	P-GS 30/50 1μ	920 €	19

FST	ultrafilter	Price	Prod. grp.
EFSTP 140 D1	GS N 10/3 1μ	355 €	19
EFSTP 180 D1	GS N 20/3 1μ	550 €	19
EFSTP 190 D1	GS N 30/3 1μ	680 €	19

ERUF - Filter elements for ULTRAFILTER/DONALDSON DF series filter

Filter elements for ULTRAFILTER/DONALDSON DF series filter on request.

Cooling

Cooler up to 16 bar – air-cooled – HAO series



Scope of supply

Ready-to-use cooler ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Air-cooled cooler with water separator without condensate drain

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection compressed air	Connection condensate discharge	Supply voltage	Demand of cooling air	Price	Prod.-grp.
HAO-RA 10 WS	60 m ³ /h	16 bar	G 1	R 3/8	230 V	800 m ³ /h	542 €	42
HAO-RA 20 WS	120 m ³ /h	16 bar	G 1	R 3/8	230 V	800 m ³ /h	756 €	42
HAO-RA 30 WS	180 m ³ /h	16 bar	G 1 ½	R 3/8	400 V	2.980 m ³ /h	829 €	42
HAO-RA 40 WS	240 m ³ /h	16 bar	G 1 ½	R 3/8	400 V	3.790 m ³ /h	899 €	42
HAO-RA 50 WS	300 m ³ /h	16 bar	G 2 - G 1 ½	R 3/8	400 V	3.790 m ³ /h	1.121 €	42
HAO-RA 65 WS	390 m ³ /h	16 bar	G 2 - G 1 ½	R 3/8	400 V	6.500 m ³ /h	1.213 €	42
HAO-RA 80 WS	480 m ³ /h	16 bar	G 2 - G 1 ½	R 3/8	400 V	6.500 m ³ /h	1.314 €	42
HAO-RA 120 WS	720 m ³ /h	16 bar	G 2	R 3/8	400 V	8.200 m ³ /h	2.121 €	42
HAO-RA 160 WS	960 m ³ /h	16 bar	G 2 ½	R 3/8	400 V	8.200 m ³ /h	2.464 €	42
HAO-RA 200 WS	1.200 m ³ /h	16 bar	G 3 - G 2 ½	R 3/8	400 V	12.000 m ³ /h	3.111 €	42
HAO-RA 250 WS	1.500 m ³ /h	16 bar	G 3	R 3/8	400 V	12.000 m ³ /h	3.669 €	42
HAO-RA 300 WS	1.800 m ³ /h	16 bar	DN 100	R 3/8	400 V	12.000 m ³ /h	4.781 €	42
HAO-RA 400 WS	2.400 m ³ /h	16 bar	DN 100	R 3/8	400 V	16.400 m ³ /h	5.922 €	42
HAO-RA 500 WS	3.000 m ³ /h	12 bar	DN 125	R 1	400 V	26.000 m ³ /h	7.192 €	42
HAO-RA 650 WS	3.900 m ³ /h	12 bar	DN 125	R 1	400 V	26.000 m ³ /h	8.829 €	42
HAO-RA 750 WS	4.500 m ³ /h	12 bar	DN 150	R 2	400 V	26.000 m ³ /h	9.839 €	42

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 25°C ambient temperature



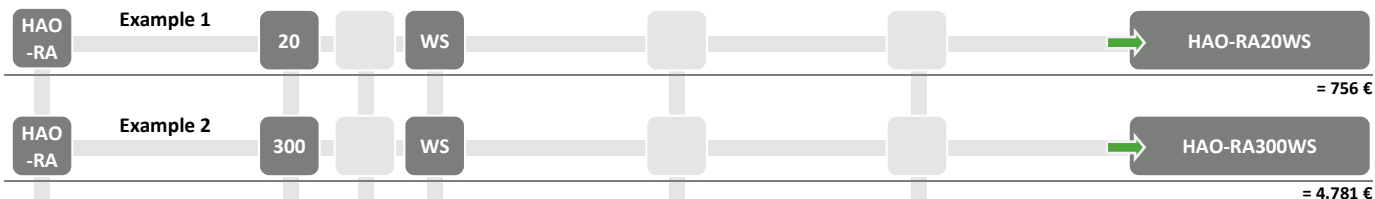
Sizing for your individual operating conditions

Please contact the technical support of FST.

Cooling

Cooler up to 16 bar – air-cooled – HAO series

Options, order examples and price calculations



Series	Size	Pressure	Water separator
--------	------	----------	-----------------

HAO-RA
Cooler
air-cooled

Size (see table left side)

WS
With
water separator

Sizes and weights (including water separator)

	Height [A]	Width [B]	Depth [C]	Weight
HAO-RA 10 WS	955 mm	600 mm	270 mm	19 kg
HAO-RA 20 WS	955 mm	600 mm	270 mm	20 kg
HAO-RA 30 WS	1145 mm	820 mm	270 mm	29 kg
HAO-RA 40 WS	1145 mm	1030 mm	330 mm	32 kg
HAO-RA 50 WS	1145 mm	1030 mm	330 mm	49 kg
HAO-RA 65 WS	1145 mm	1030 mm	360 mm	51 kg
HAO-RA 80 WS	1390 mm	1030 mm	380 mm	53 kg
HAO-RA 120 WS	1555 mm	1030 mm	655 mm	97 kg
HAO-RA 160 WS	2110 mm	1230 mm	655 mm	120 kg
HAO-RA 200 WS	2120 mm	1410 mm	490 mm	240 kg
HAO-RA 250 WS	2120 mm	1410 mm	490 mm	250 kg
HAO-RA 300 WS	2060 mm	1970 mm	490 mm	280 kg
HAO-RA 400 WS	2060 mm	2290 mm	490 mm	300 kg
HAO-RA 500 WS	2000 mm	3245 mm	560 mm	310 kg
HAO-RA 650 WS	2000 mm	3245 mm	560 mm	360 kg
HAO-RA 750 WS	2020 mm	3325 mm	565 mm	390 kg

Cooling

Cooler up to 16 bar – water-cooled – HWO series



Scope of supply

Ready-to-use cooler including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Water-cooled cooler with fixed bundle ; option for downstream water separator without condensate drain

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection compressed air	Connection cooling water	Connection condensate discharge	Price	Prod.-grp.
HWO-A 10	60 m ³ /h	16 bar	G 1 ½	G 1/2	---	824 €	42
HWO-A 15	90 m ³ /h	16 bar	G 1 ½	G 1/2	---	879 €	42
HWO-A 30	180 m ³ /h	16 bar	G 1 ½	G 1/2	---	962 €	42
HWO-A 40	240 m ³ /h	12 bar	G 2 ½	G 3/4	---	1.137 €	42
HWO-A 60	360 m ³ /h	12 bar	G 2 ½	G 3/4	---	1.198 €	42
HWO-A 80	480 m ³ /h	12 bar	G 2 ½	G 3/4	---	1.322 €	42
HWO-A 140	840 m ³ /h	12 bar	DN 100	G 1	---	2.516 €	42
HWO-A 200	1.200 m ³ /h	12 bar	DN 100	G 1	---	2.606 €	42
HWO-A 250	1.500 m ³ /h	12 bar	DN 100	G 1	---	2.816 €	42
HWO-A 300	1.800 m ³ /h	12 bar	DN 150	G 1 ¼	---	3.765 €	42
HWO-A 400	2.400 m ³ /h	12 bar	DN 150	G 1 ¼	---	4.659 €	42
HWO-A 500	3.000 m ³ /h	12 bar	DN 175	G 1 ¼	---	4.966 €	42
HWO-A 800	4.800 m ³ /h	12 bar	DN 250	G 1 ¼	---	6.318 €	42
HWO-A 1100	6.600 m ³ /h	12 bar	DN 250	G 1 ½	---	7.391 €	42
HWO-A 1500	9.000 m ³ /h	12 bar	DN 300	G 2	---	10.565 €	42
HWO-A 1800	10.800 m ³ /h	12 bar	DN 350	G 2	---	11.598 €	42
HWO-A 2100	12.600 m ³ /h	12 bar	DN 400	G 2 ½	---	15.301 €	42
HWO-A 10 WS	60 m ³ /h	16 bar	G 1 ½	G 1/2	R 3/8	1.062 €	42
HWO-A 15 WS	90 m ³ /h	16 bar	G 1 ½	G 1/2	R 3/8	1.134 €	42
HWO-A 30 WS	180 m ³ /h	16 bar	G 1 ½	G 1/2	R 3/8	1.238 €	42
HWO-A 40 WS	240 m ³ /h	12 bar	G 2 ½ - G 1 ½	G 3/4	R 3/8	1.471 €	42
HWO-A 60 WS	360 m ³ /h	12 bar	G 2 ½ - G 1 ½	G 3/4	R 3/8	1.545 €	42
HWO-A 80 WS	480 m ³ /h	12 bar	G 2 ½ - G 1 ½	G 3/4	R 3/8	1.710 €	42
HWO-A 140 WS	840 m ³ /h	12 bar	DN 100	G 1	R 3/8	3.295 €	42
HWO-A 200 WS	1.200 m ³ /h	12 bar	DN 100	G 1	R 3/8	3.415 €	42
HWO-A 250 WS	1.500 m ³ /h	12 bar	DN 100	G 1	R 3/8	3.687 €	42
HWO-A 300 WS	1.800 m ³ /h	12 bar	DN 150 - DN 125	G 1 ¼	R 3/8	4.945 €	42
HWO-A 400 WS	2.400 m ³ /h	12 bar	DN 150 - DN 125	G 1 ¼	R 3/8	6.137 €	42
HWO-A 500 WS	3.000 m ³ /h	12 bar	DN 175 - DN 125	G 1 ¼	R 1	6.532 €	42
HWO-A 800 WS	4.800 m ³ /h	12 bar	DN 250 - DN 150	G 1 ¼	R 2	8.331 €	42
HWO-A 1100 WS	6.600 m ³ /h	12 bar	DN 250 - DN 150	G 1 ½	R 2	9.743 €	42
HWO-A 1500 WS	9.000 m ³ /h	12 bar	DN 300 - DN 200	G 2	R 2	13.974 €	42
HWO-A 1800 WS	10.800 m ³ /h	12 bar	DN 350 - DN 200	G 2	R 2	15.334 €	42
HWO-A 2100 WS	12.600 m ³ /h	12 bar	DN 400 - DN 200	G 2 ½	R 2	20.252 €	42

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure



Water-cooled coolers for higher volume flows, higher operating pressures, bigger connection sizes or stainless-steel materials are available on request.



Sizing for your individual operating conditions

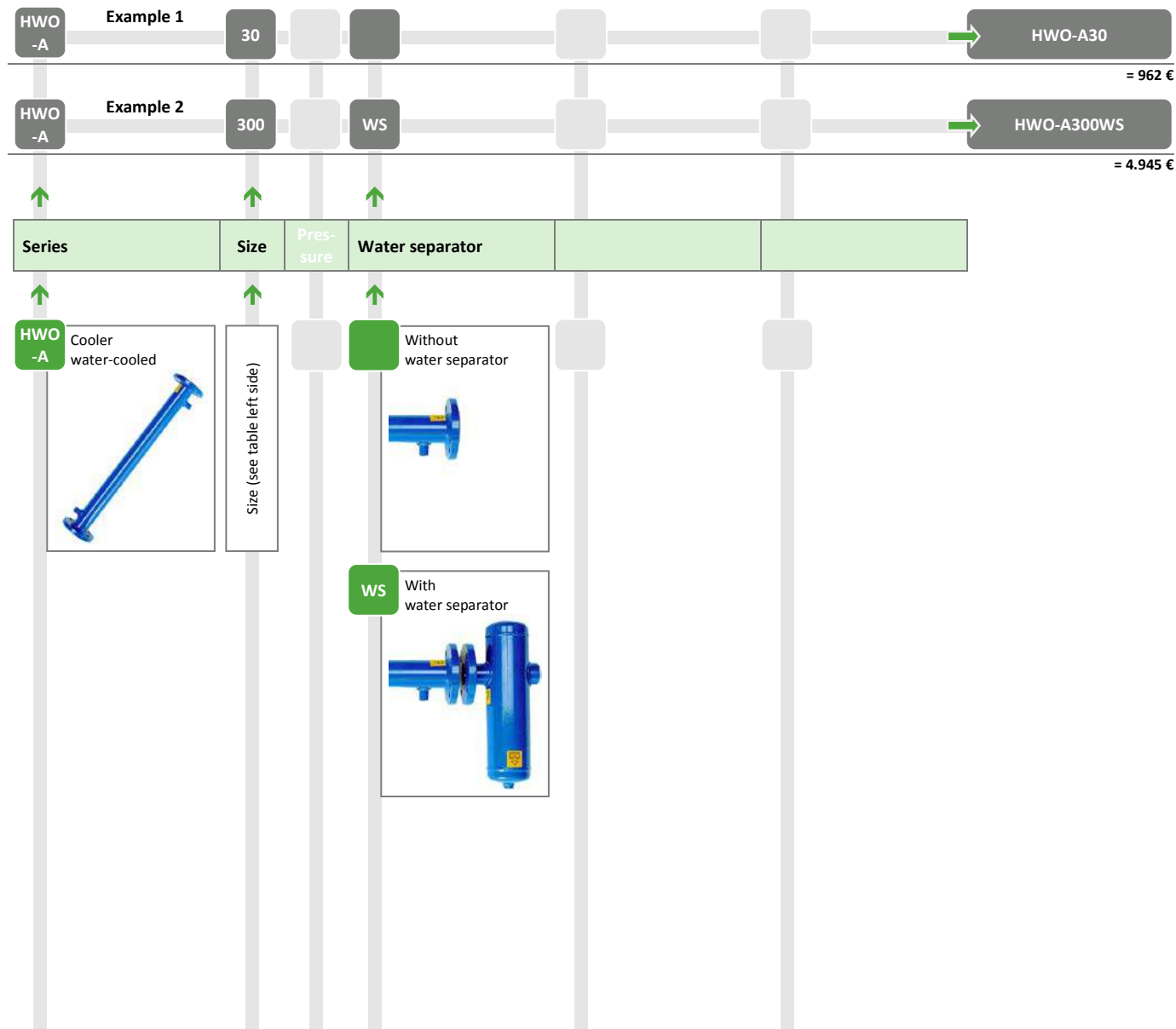
Please contact the technical support of FST.

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Cooling

Cooler up to 16 bar – water-cooled – HWO series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
HWO-A 10	165 mm	670 mm	165 mm	11 kg	HWO-A 10 WS	385 mm	810 mm	165 mm	12 kg
HWO-A 15	165 mm	670 mm	165 mm	16 kg	HWO-A 15 WS	385 mm	810 mm	165 mm	17 kg
HWO-A 30	165 mm	970 mm	165 mm	17 kg	HWO-A 30 WS	385 mm	1110 mm	165 mm	18 kg
HWO-A 40	185 mm	1000 mm	185 mm	21 kg	HWO-A 40 WS	675 mm	1195 mm	185 mm	26 kg
HWO-A 60	185 mm	1210 mm	185 mm	24 kg	HWO-A 60 WS	675 mm	1405 mm	185 mm	29 kg
HWO-A 80	185 mm	1450 mm	185 mm	33 kg	HWO-A 80 WS	675 mm	1645 mm	185 mm	38 kg
HWO-A 140	220 mm	1300 mm	220 mm	43 kg	HWO-A 140 WS	757 mm	1845 mm	220 mm	49 kg
HWO-A 200	220 mm	1300 mm	220 mm	89 kg	HWO-A 200 WS	757 mm	1845 mm	220 mm	95 kg
HWO-A 250	220 mm	1300 mm	220 mm	109 kg	HWO-A 250 WS	757 mm	1845 mm	220 mm	115 kg
HWO-A 300	285 mm	1300 mm	285 mm	138 kg	HWO-A 300 WS	772 mm	2068 mm	285 mm	145 kg
HWO-A 400	285 mm	1300 mm	285 mm	153 kg	HWO-A 400 WS	772 mm	2068 mm	285 mm	160 kg
HWO-A 500	315 mm	1300 mm	315 mm	156 kg	HWO-A 500 WS	790 mm	1907 mm	315 mm	210 kg
HWO-A 800	405 mm	1300 mm	405 mm	250 kg	HWO-A 800 WS	845 mm	2023 mm	405 mm	330 kg
HWO-A 1100	405 mm	1300 mm	405 mm	280 kg	HWO-A 1100 WS	845 mm	2023 mm	405 mm	360 kg
HWO-A 1500	460 mm	1300 mm	460 mm	304 kg	HWO-A 1500 WS	1025 mm	2182 mm	460 mm	460 kg
HWO-A 1800	520 mm	1300 mm	520 mm	334 kg	HWO-A 1800 WS	1025 mm	2307 mm	520 mm	460 kg
HWO-A 2100	580 mm	1500 mm	580 mm	374 kg	HWO-A 2100 WS	1025 mm	2567 mm	580 mm	530 kg

Cooling

Water separator up to 16 bar – FCA..CKL.. series



Scope of supply

Ready-to-use water separator ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

The manufacturers operating manual including the manufacturer's declaration and/or declaration of conformity is included.

Operating manuals are available in English and German language.

Standard version

Filter housing including water separator insert ; plug screws ; without condensate drain ; flow direction from outside to inside

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Connection condensate discharge	Price	Prod.-grp.
FCA-CKL 005 B	120 m ³ /h	16 bar	G 3/8	G 1/2	121 €	42
FCA-CKL 007 B	155 m ³ /h	16 bar	G 1/2	G 1/2	125 €	42
FCA-CKL 010 B	235 m ³ /h	16 bar	G 3/4	G 1/2	140 €	42
FCA-CKL 018 B	365 m ³ /h	16 bar	G 1	G 1/2	155 €	42
FCA-CKL 047 B	770 m ³ /h	16 bar	G 1 ½	G 1/2	180 €	42
FCA-CKL 094 B	1.280 m ³ /h	16 bar	G 2	G 1/2	355 €	42
FCA-CKL 150 B	2.460 m ³ /h	16 bar	G 2 ½	G 1/2	425 €	42
FCA-CKL 200 B	2.850 m ³ /h	16 bar	G 3	G 1/2	870 €	42

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure

Volume flow conversion factors for operating pressures deviating from reference conditions

2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

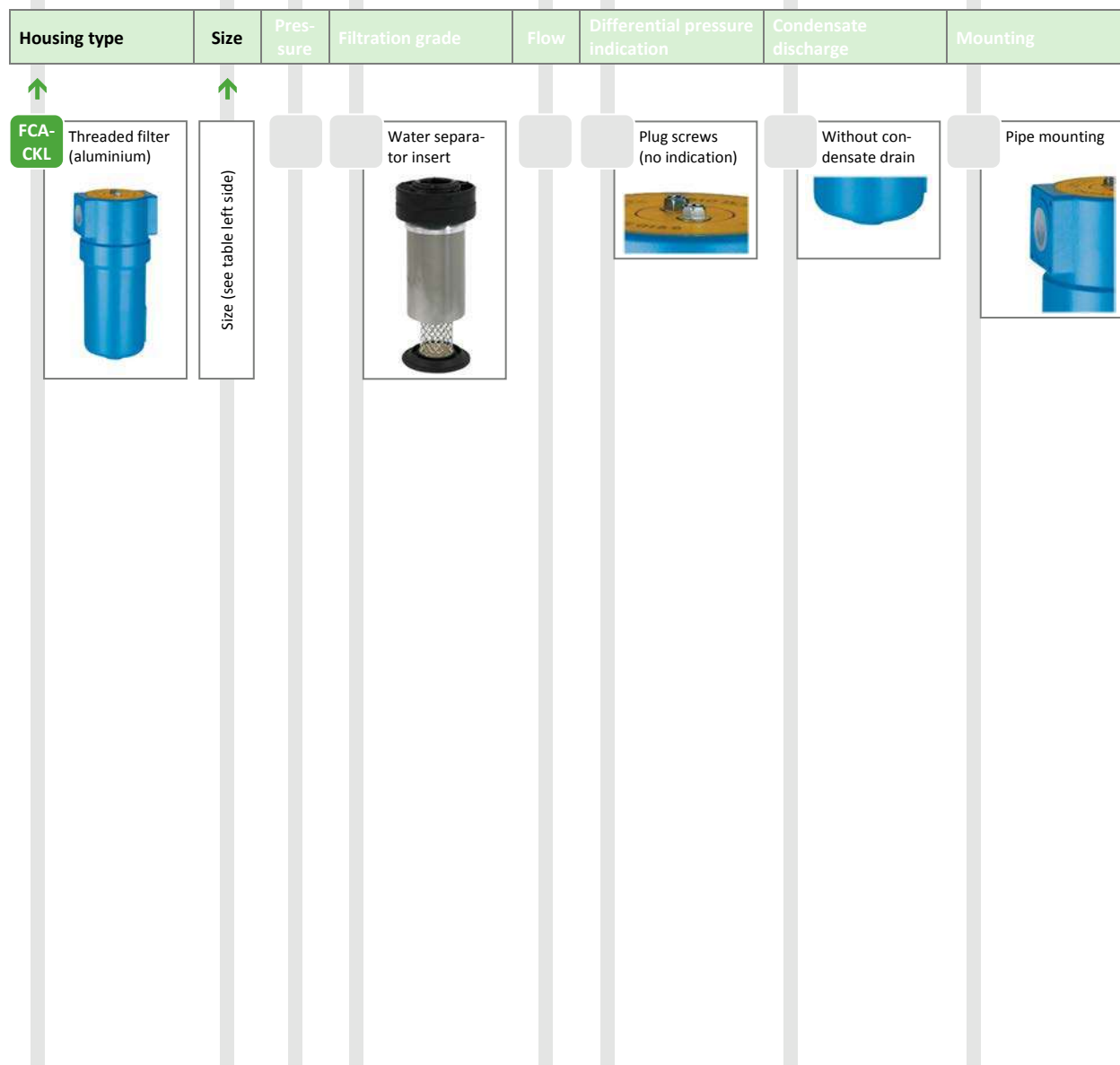
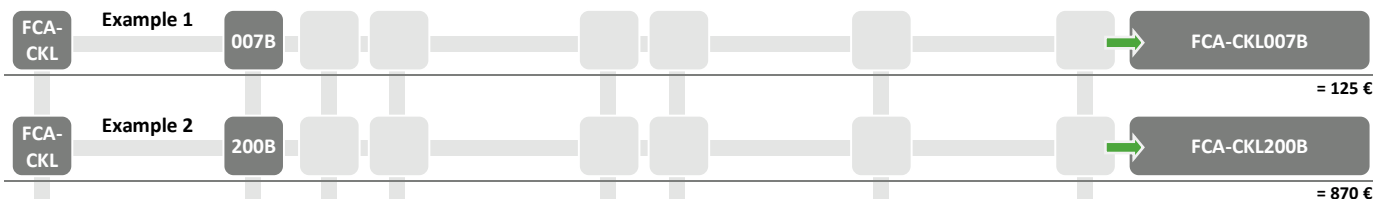
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Cooling

Water separator up to 16 bar – FCA..CKL.. series

Options, order examples and price calculations



Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight
FCA-CKL 005B	187 mm	88 mm	80 mm	0,7 kg
FCA-CKL 007B	187 mm	88 mm	80 mm	0,7 kg
FCA-CKL 010B	257 mm	88 mm	80 mm	0,8 kg
FCA-CKL 018B	263 mm	125 mm	117 mm	1,8 kg
FCA-CKL 047B	461 mm	125 mm	117 mm	2,5 kg
FCA-CKL 094B	684 mm	163 mm	140 mm	5,1 kg
FCA-CKL 150B	684 mm	163 mm	140 mm	5,1 kg
FCA-CKL 200B	795 mm	240 mm	220 mm	12,9 kg

Drying

Refrigeration dryer up to 16 bar – DFX.. , DFE.. series



Scope of supply

Ready-to-use refrigeration dryer ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Refrigeration dryer with electronic condensate drain and alarm contact ; DFX with hot gas bypass control ; DFE with electronic energy saving control ; DFX 2-15 suitable for wall mounting

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection compressed air	Supply voltage	Price DFX	Price DFE	Prod.-grp.			
DFX 2	20 m ³ /h	16 bar	G 3/8	230 V	980 €		41			
DFX 4	35 m ³ /h	16 bar	G 1/2	230 V	1.100 €		41			
DFX 5	50 m ³ /h	16 bar	G 1/2	230 V	1.195 €		41			
DFX 7	65 m ³ /h	16 bar	G 1/2	230 V	1.345 €		41			
DFX 9	85 m ³ /h	16 bar	G 1/2	230 V	1.395 €		41			
DFX 11	105 m ³ /h	16 bar	G 1/2	230 V	1.765 €		41			
DFX 13	125 m ³ /h	14 bar	G 1	230 V	1.895 €		41			
DFX 15	150 m ³ /h	14 bar	G 1	230 V	1.990 €		41			
DFX 18	180 m ³ /h	14 bar	G 1 ¼	230 V	2.285 €		41			
DFX 23	225 m ³ /h	14 bar	G 1 ¼	230 V	2.695 €		41			
DFX 30	300 m ³ /h	14 bar	G 1 ¼	230 V	3.125 €		41			
DFX 36	360 m ³ /h	14 bar	G 1 ½	230 V	3.590 €		41			
DFX 45	450 m ³ /h	14 bar	G 1 ½	230 V	4.775 €		41			
DFX 55	DFE 55	550 m ³ /h	14 bar	16 bar	G 2	230 V	400 V	5.535 €	6.155 €	41
DFX 65	DFE 65	650 m ³ /h	14 bar	16 bar	G 2	230 V	400 V	6.490 €	7.140 €	41
DFX 75	DFE 75	750 m ³ /h	14 bar	16 bar	G 2	230 V	400 V	7.250 €	7.440 €	41
DFX 85	DFE 85	850 m ³ /h	14 bar	16 bar	G 2	230 V	400 V	7.750 €	7.990 €	41
	DFE 100	1.000 m ³ /h	16 bar	G 2 ½	400 V			9.890 €	41	
	DFE 120	1.175 m ³ /h	16 bar	G 2 ½	400 V			10.550 €	41	
	DFE 135	1.350 m ³ /h	16 bar	G 2 ½	400 V			11.450 €	41	
	DFE 150	1.500 m ³ /h	16 bar	G 2 ½	400 V			12.280 €	41	
	DFE 165	1.650 m ³ /h	16 bar	G 2 ½	400 V			12.990 €	41	

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature, 25°C ambient temperature

Volume flow conversion factors for operating conditions deviating from reference conditions

Operating pressure	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar			
		0,60	0,70	0,80	0,88	0,94	1,00	1,04	1,06	1,09	1,10	1,12	1,14	1,15	1,16	1,17		
Ambient temperature DFX / DFE	25°C		30°C		35°C		40°C		45°C		50°C							
	1,00		0,97		0,94		0,87		0,78 / 0,75		--- / 0,62							
Inlet temperature DFX / DFE	30°C		35°C		40°C		45°C		50°C		55°C		60°C		65°C		70°C	
	1,17 / 1,28		1,00		0,88		0,75		0,58		0,48		--- / 0,44		--- / 0,42		--- / 0,40	
Pressure dew-point DFX / DFE	3°C				5°C				7°C				10°C					
	0,90 / 1,00				1,00 / 1,12				1,11 / 1,24				1,25 / 1,36					

For conversion the lowest appearing operating pressure respectively maximum (highest) temperatures must be considered.

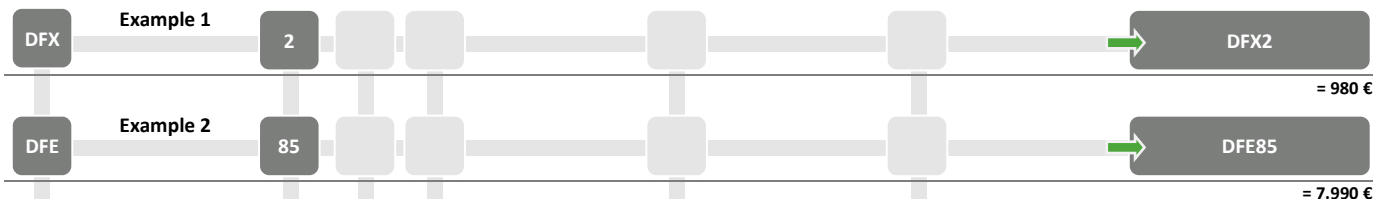
For a comprehensive description of how to use the conversion factors, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Drying

Refrigeration dryer up to 16 bar – DFX.. , DFE.. series

Options, order examples and price calculations



Series	Size	Pressure	Type	Cooling
--------	------	----------	------	---------



Size (see table left side)

Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DFX 2	645 mm	360 mm	410 mm	24 kg	DFE 55	1230 mm	904 mm	805 mm	150 kg
DFX 4	645 mm	360 mm	410 mm	26 kg	DFE 65	1230 mm	904 mm	805 mm	152 kg
DFX 5	645 mm	360 mm	410 mm	27 kg	DFE 75	1230 mm	904 mm	805 mm	166 kg
DFX 7	645 mm	360 mm	410 mm	29 kg	DFE 85	1230 mm	904 mm	805 mm	175 kg
DFX 9	645 mm	360 mm	410 mm	31 kg	DFE 100	1230 mm	904 mm	805 mm	177 kg
DFX 11	645 mm	360 mm	410 mm	31 kg	DFE 120	1230 mm	904 mm	805 mm	180 kg
DFX 13	645 mm	360 mm	410 mm	33 kg	DFE 135	1230 mm	904 mm	805 mm	185 kg
DFX 15	645 mm	360 mm	410 mm	33 kg	DFE 150	1230 mm	904 mm	805 mm	190 kg
DFX 18	870 mm	480 mm	660 mm	55 kg	DFE 165	1230 mm	904 mm	805 mm	196 kg
DFX 23	870 mm	480 mm	660 mm	56 kg					
DFX 30	870 mm	480 mm	660 mm	57 kg					
DFX 36	870 mm	480 mm	660 mm	61 kg					
DFX 45	870 mm	480 mm	660 mm	68 kg					
DFX 55	1055 mm	645 mm	920 mm	116 kg					
DFX 65	1055 mm	645 mm	920 mm	118 kg					
DFX 75	1055 mm	645 mm	920 mm	121 kg					
DFX 85	1055 mm	645 mm	920 mm	155 kg					

Drying

Refrigeration dryer up to 16 bar – DFLO series



Scope of supply

Ready-to-use refrigeration dryer ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Refrigeration dryer with electronic condensate drain and alarm contact ; option for water-cooled version (W) and/or energy saving control (ES)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection compressed air	Price	Prod.-grp.		Price	Prod.-grp.
DFLO 66	660 m ³ /h	16 bar	G 2	5.163 €	41	DFLO 66 W	6.563 €	41
DFLO 78	780 m ³ /h	16 bar	G 2	6.063 €	41	DFLO 78 W	7.563 €	41
DFLO 100	1.000 m ³ /h	16 bar	G 2	7.188 €	41	DFLO 100 W	8.313 €	41
DFLO 130	1.300 m ³ /h	16 bar	G 3	9.875 €	41	DFLO 130 W	9.875 €	41
DFLO 170	1.700 m ³ /h	16 bar	G 3	11.188 €	41	DFLO 170 W	11.188 €	41
DFLO 220	2.200 m ³ /h	16 bar	G 3	11.938 €	41	DFLO 220 W	11.938 €	41
DFLO 270	2.700 m ³ /h	16 bar	DN 100	15.625 €	41	DFLO 270 W	15.625 €	41
DFLO 360	3.600 m ³ /h	16 bar	DN 125	18.668 €	41	DFLO 360 W	18.668 €	41
DFLO 420	4.200 m ³ /h	16 bar	DN 125	21.294 €	41	DFLO 420 W	21.294 €	41
DFLO 530	5.300 m ³ /h	16 bar	DN 150	23.926 €	41	DFLO 530 W	23.926 €	41
DFLO 600	6.000 m ³ /h	16 bar	DN 150	27.567 €	41	DFLO 600 W	27.567 €	41
DFLO 680	6.800 m ³ /h	16 bar	DN 150	30.446 €	41	DFLO 680 W	30.446 €	41
DFLO 880	8.800 m ³ /h	13 bar	DN 150	38.150 €	41	DFLO 880 W	38.150 €	41
DFLO 1000	10.000 m ³ /h	13 bar	DN 200	42.450 €	41	DFLO 1000 W	42.450 €	41
DFLO 1200	12.000 m ³ /h	13 bar	DN 200	46.750 €	41	DFLO 1200 W	46.750 €	41
DFLO 1360	13.600 m ³ /h	13 bar	DN 200	51.550 €	41	DFLO 1360 W	51.550 €	41
DFLO 1760	17.600 m ³ /h	13 bar	2 x DN 150	67.575 €	41	DFLO 1760 W	67.575 €	41
DFLO 2000	20.000 m ³ /h	13 bar	2 x DN 200	73.600 €	41	DFLO 2000 W	73.600 €	41
DFLO 2400	24.000 m ³ /h	13 bar	2 x DN 200	88.125 €	41	DFLO 2400 W	88.125 €	41
DFLO 66 ES	660 m ³ /h	16 bar	G 2	6.155 €	41			
DFLO 78 ES	780 m ³ /h	16 bar	G 2	7.199 €	41			
DFLO 100 ES	1.000 m ³ /h	16 bar	G 2	8.347 €	41			
DFLO 130 ES	1.300 m ³ /h	16 bar	G 3	12.370 €	41	DFLO 130 ESW	12.370 €	41
DFLO 170 ES	1.700 m ³ /h	16 bar	G 3	12.979 €	41	DFLO 170 ESW	12.979 €	41
DFLO 220 ES	2.200 m ³ /h	16 bar	G 3	14.893 €	41	DFLO 220 ESW	14.893 €	41
DFLO 270 ES	2.700 m ³ /h	16 bar	DN 100	18.025 €	41	DFLO 270 ESW	18.025 €	41
DFLO 360 ES	3.600 m ³ /h	16 bar	DN 125	23.370 €	41	DFLO 360 ESW	23.370 €	41
DFLO 420 ES	4.200 m ³ /h	16 bar	DN 125	25.110 €	41	DFLO 420 ESW	25.110 €	41
DFLO 530 ES	5.300 m ³ /h	16 bar	DN 150	27.720 €	41	DFLO 530 ESW	27.720 €	41
DFLO 600 ES	6.000 m ³ /h	16 bar	DN 150	32.940 €	41	DFLO 600 ESW	32.940 €	41
DFLO 660 ES	6.600 m ³ /h	16 bar	DN 150	35.985 €	41	DFLO 660 ESW	35.985 €	41

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature, 25°C ambient temperature, +3°C pressure dew-point



Refrigeration dryer for higher volume flows, higher operating pressures or bigger connection sizes are available on request.



Sizing for your individual operating conditions

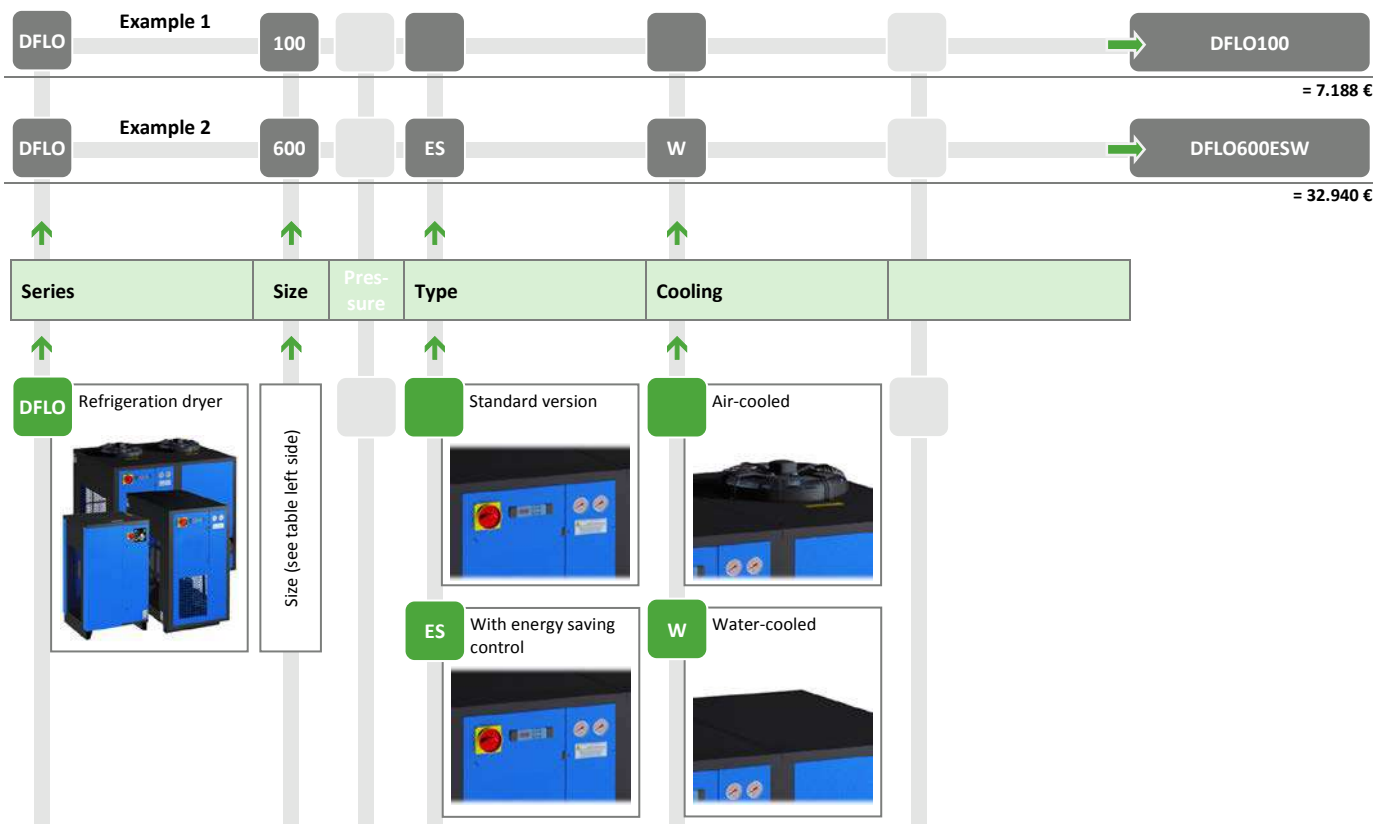
Please contact the technical support of FST.

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Drying

Refrigeration dryer up to 16 bar – DFLO series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DFLO 66	1340 mm	780 mm	720 mm	120 kg	DFLO 66 W	1273 mm	791 mm	720 mm	130 kg
DFLO 78	1340 mm	780 mm	720 mm	130 kg	DFLO 78 W	1273 mm	791 mm	720 mm	140 kg
DFLO 100	1340 mm	780 mm	720 mm	150 kg	DFLO 100 W	1273 mm	791 mm	720 mm	160 kg
DFLO 130	1555 mm	785 mm	1365 mm	260 kg	DFLO 130 W	1440 mm	785 mm	1365 mm	240 kg
DFLO 170	1555 mm	785 mm	1365 mm	270 kg	DFLO 170 W	1440 mm	785 mm	1365 mm	270 kg
DFLO 220	1555 mm	785 mm	1365 mm	300 kg	DFLO 220 W	1440 mm	785 mm	1365 mm	300 kg
DFLO 270	1555 mm	905 mm	1390 mm	330 kg	DFLO 270 W	1440 mm	905 mm	1390 mm	330 kg
DFLO 360	1555 mm	1510 mm	1500 mm	420 kg	DFLO 360 W	1440 mm	1510 mm	1500 mm	420 kg
DFLO 420	1555 mm	1510 mm	1500 mm	520 kg	DFLO 420 W	1440 mm	1510 mm	1500 mm	520 kg
DFLO 530	1555 mm	1510 mm	1500 mm	620 kg	DFLO 530 W	1440 mm	1510 mm	1500 mm	620 kg
DFLO 600	1555 mm	1510 mm	1500 mm	720 kg	DFLO 600 W	1440 mm	1510 mm	1500 mm	720 kg
DFLO 680	1555 mm	1510 mm	1500 mm	735 kg	DFLO 680 W	1440 mm	1510 mm	1500 mm	745 kg
DFLO 880	1570 mm	2270 mm	1500 mm	1080 kg	DFLO 880 W	1440 mm	2270 mm	1500 mm	1095 kg
DFLO 1000	1590 mm	2270 mm	1590 mm	1150 kg	DFLO 1000 W	1440 mm	2270 mm	1590 mm	1165 kg
DFLO 1200	1565 mm	2270 mm	1590 mm	1230 kg	DFLO 1200 W	1440 mm	2270 mm	1590 mm	1245 kg
DFLO 1360	1590 mm	3025 mm	1590 mm	1350 kg	DFLO 1360 W	1440 mm	3025 mm	1590 mm	1380 kg
DFLO 1760	1570 mm	4535 mm	1500 mm	2160 kg	DFLO 1760 W	1440 mm	4535 mm	1500 mm	2190 kg
DFLO 2000	1570 mm	4535 mm	1590 mm	2300 kg	DFLO 2000 W	1440 mm	4535 mm	1590 mm	2330 kg
DFLO 2400	1565 mm	4535 mm	1590 mm	2460 kg	DFLO 2400 W	1440 mm	4535 mm	1590 mm	2490 kg
DFLO 66 ES	1360 mm	750 mm	780 mm	170 kg					
DFLO 78 ES	1360 mm	750 mm	780 mm	210 kg					
DFLO 100 ES	1360 mm	750 mm	780 mm	220 kg					
DFLO 130 ES	1555 mm	785 mm	1365 mm	260 kg	DFLO 130 ESW	1535 mm	785 mm	1360 mm	247 kg
DFLO 170 ES	1555 mm	785 mm	1365 mm	270 kg	DFLO 170 ESW	1535 mm	785 mm	1360 mm	257 kg
DFLO 220 ES	1555 mm	785 mm	1365 mm	300 kg	DFLO 220 ESW	1535 mm	785 mm	1360 mm	285 kg
DFLO 270 ES	1555 mm	785 mm	1365 mm	330 kg	DFLO 270 ESW	1535 mm	785 mm	1360 mm	314 kg
DFLO 360 ES	1555 mm	1510 mm	1500 mm	420 kg	DFLO 360 ESW	1520 mm	1510 mm	1500 mm	399 kg
DFLO 420 ES	1555 mm	1510 mm	1500 mm	520 kg	DFLO 420 ESW	1520 mm	1510 mm	1500 mm	494 kg
DFLO 530 ES	1555 mm	1510 mm	1500 mm	620 kg	DFLO 530 ESW	1520 mm	1510 mm	1500 mm	589 kg
DFLO 600 ES	1555 mm	1510 mm	1500 mm	720 kg	DFLO 600 ESW	1520 mm	1510 mm	1500 mm	684 kg
DFLO 660 ES	1555 mm	1510 mm	1500 mm	750 kg	DFLO 660 ESW	1520 mm	1510 mm	1500 mm	713 kg

Drying

Membrane dryer up to 12,5 bar – DM-SWC.., DM-FP.. series



Scope of supply

Ready-to-use membrane dryer including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Membrane dryer module with fixed (DM-SWCM, DM-FP) or variable amount of purge air ; option for pre-filter (XN)

Up to 8,5 bar for dew-point reduction from 10°C up to 30°C

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.		Pre-filter	Connection	Price	Prod.-grp.
DM-SWCM-08-100	4,2 m ³ /h	8,5 bar	G 1/8	486 €	45	DM-SWCM-08-100XN	FCA20	G 1/4	656 €	45
DM-SWCM-15-100	7,2 m ³ /h	8,5 bar	G 1/8	523 €	45	DM-SWCM-15-100XN	FCA20	G 1/4	693 €	45
DM-SWC-01-150	12 m ³ /h	8,5 bar	G 1/4	701 €	45	DM-SWC-01-150XN	FCA20	G 1/4	871 €	45
DM-SWC-02-250	18 m ³ /h	8,5 bar	G 3/8	1.305 €	45	DM-SWC-02-250XN	FCA25	G 3/8	1.480 €	45
DM-SWC-03-250	24 m ³ /h	8,5 bar	G 3/8	1.381 €	45	DM-SWC-03-250XN	FCA25	G 3/8	1.556 €	45

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature, 30°C dew-point reduction

Up to 12,5 bar for pressure dew-points from +15°C up to -40°C

	Nominal volume flow ^{*2}	Maximum operating pressure	Connection	Price	Prod.-grp.		Pre-filter	Connection	Price	Prod.-grp.
DM-FP 50	3 m ³ /h	12,5 bar	G 1/4	510 €	45	DM-FP 50 XN	FCA20	G 1/4	680 €	45
DM-FP 100	6 m ³ /h	12,5 bar	G 1/4	595 €	45	DM-FP 100 XN	FCA20	G 1/4	765 €	45
DM-FP 150	9 m ³ /h	12,5 bar	G 1/4	667 €	45	DM-FP 150 XN	FCA20	G 1/4	837 €	45
DM-FP 200	12 m ³ /h	12,5 bar	G 1/4	741 €	45	DM-FP 200 XN	FCA20	G 1/4	911 €	45
DM-FP 300	18 m ³ /h	12,5 bar	G 1/2	825 €	45	DM-FP 300 XN	FCA50	G 1/2	1.060 €	45
DM-FP 400	24 m ³ /h	12,5 bar	G 1/2	932 €	45	DM-FP 400 XN	FCA50	G 1/2	1.167 €	45
DM-FP 600	36 m ³ /h	12,5 bar	G 1/2	1.140 €	45	DM-FP 600 XN	FCA50	G 1/2	1.375 €	45
DM-FP 800	48 m ³ /h	12,5 bar	G 1/2	1.285 €	45	DM-FP 800 XN	FCA50	G 1/2	1.520 €	45
DM-FP 1050	63 m ³ /h	12,5 bar	G 1/2	1.428 €	45	DM-FP 1050 XN	FCA50	G 1/2	1.663 €	45

*2 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature, 15°C pressure dew-point, purge air 10% of nominal volume flow

Volume flow conversion factors for operating pressures deviating from reference conditions (DM-FP only)

Operating pressure	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar
	0,41	0,56	0,76	1,00	1,22	1,48	1,76	1,86	2,22

Pressure dew-point	-40°C	-20°C	+3°C
	0,34	0,47	0,72

For conversion the lowest appearing operating pressure and pressure dew-point must be considered.

For conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“






Drying

Membrane dryer up to 12,5 bar – DM-SWC.. , DM-FP.. series

Options, order examples and price calculations

DM-SWC	Example 1	-02 -250						DM-SCW-01-150	= 1.305 €
DM-FP	Example 2	300		XN				DM-FP300XN	= 1.055 €

Series	Size	Pressure	Type		
--------	------	----------	------	--	--

DM-SWCM Fixed amount of purge air 	Size (see table left side)	<input type="checkbox"/> Without pre-filter 
DM-SWC Variable amount of purge air 		<input checked="" type="checkbox"/> XN With pre-filter 
DM-FP Fixed amount of purge air 		

Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DM-SWCM-08-100	112 mm	61 mm	31 mm	0,26 kg	DM-SWCM-08-100XN	112 mm	130 mm	60 mm	0,91 kg
DM-SWCM-15-100	112 mm	61 mm	31 mm	0,27 kg	DM-SWCM-15-100XN	112 mm	130 mm	60 mm	0,92 kg
DM-SWC-01-150	150 mm	70 mm	40 mm	0,39 kg	DM-SWC-01-150XN	150 mm	140 mm	60 mm	1,04 kg
DM-SWC-02-250	200 mm	90 mm	50 mm	0,69 kg	DM-SWC-02-250XN	200 mm	160 mm	60 mm	1,34 kg
DM-SWC-03-250	200 mm	90 mm	50 mm	0,71 kg	DM-SWC-03-250XN	200 mm	160 mm	60 mm	1,36 kg
DM-FP50	58,4 mm	224 mm	58,4 mm	0,50 kg	DM-FP50XN	169 mm	290 mm	60 mm	1,10 kg
DM-FP100	58,4 mm	325 mm	58,4 mm	0,65 kg	DM-FP100XN	169 mm	395 mm	60 mm	1,25 kg
DM-FP150	58,4 mm	427 mm	58,4 mm	0,80 kg	DM-FP150XN	169 mm	495 mm	60 mm	1,40 kg
DM-FP200	58,4 mm	503 mm	58,4 mm	0,95 kg	DM-FP200XN	169 mm	570 mm	60 mm	1,55 kg
DM-FP300	81,3 mm	312 mm	81,3 mm	1,10 kg	DM-FP300XN	215 mm	410 mm	80 mm	2,20 kg
DM-FP400	81,3 mm	376 mm	81,3 mm	1,25 kg	DM-FP400XN	215 mm	475 mm	80 mm	2,35 kg
DM-FP600	81,3 mm	465 mm	81,3 mm	1,45 kg	DM-FP600XN	215 mm	560 mm	80 mm	2,55 kg
DM-FP800	81,3 mm	592 mm	81,3 mm	1,70 kg	DM-FP800XN	215 mm	690 mm	80 mm	2,80 kg
DM-FP1050	109,2 mm	411 mm	109,2 mm	2,00 kg	DM-FP1050XN	215 mm	510 mm	80 mm	3,10 kg

Drying

Adsorption dryer up to 16 bar – Point of use dryer – FCA..CMS.. series



Scope of supply

Ready-to-use point of use dryer including selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Dryer housing including desiccant cartridge ; plug screws ; manual drain ;
flow direction from top to bottom

	Nominal volume flow ^{*1}	Capacity ^{*2}	Maximum operating pressure	Connection		Cartridge	Quantity	Price	Prod.-grp.
FCA 90 CMS M	0,5 m ³ /h	11 m ³	16 bar	G 1/2	EFST	90 CMS	1	450 €	01
FCA 110 CMS M	1,5 m ³ /h	32 m ³	16 bar	G 1/2	EFST	110 CMS	1	570 €	01
FCA 120 CMS M	2,5 m ³ /h	54 m ³	16 bar	G 1/2	EFST	120 CMS	1	680 €	01
FCA 130 CMS M	4,0 m ³ /h	95 m ³	16 bar	G 1/2	EFST	130 CMS	1	880 €	01

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure ; inlet temperature 20°C ; pressure dew-point reduction 30°C

*2 – refers to 20°C inlet temperature and 20% load capacity of the desiccant related to its weight

Volume flow conversion factors for operating pressures deviating from reference conditions

0 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
0,125	0,25	0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

For conversion the lowest appearing operating pressure must be considered.

For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“








Drying

Adsorption dryer up to 16 bar – Point of use dryer – FCA..CMS.. series

Options, order examples and price calculations

Example 1	FCA	90		CMS			M	W	FCA90CMSMW
				450 € (see table left side)			(no add. price - see below)	+ 54 € (see below)	= 504 €
Example 2	FCA	130		CMS		HI	M		FCA130CMSHM
				880 € (see table left side)		+ 80 € (see below)	(no add. price - see below)		= 960 €

Housing type	Size	Pressure	Filtration grade	Flow	Differential pressure indication	Condensate discharge	Mounting
--------------	------	----------	------------------	------	----------------------------------	----------------------	----------

FCA	Threaded filter (aluminium)		CMS	Desiccant cartridge	Top → Bottom	Plug screws (no indication)	M	Manual condensate drain	Pipe mounting
									
	Size (see table left side)				HI	Humidity indicator			W
									
					FCA90-130 Prod.-grp. 08	80 €			FCA90-130 Prod.-grp. 08
									54 €

Sizes and weights (housings only)

	Height [A]	Width [B]	Depth [C]	Weight
FCA 90	289 mm	130 mm	122 mm	3,9 kg
FCA 110	387 mm	130 mm	122 mm	4,3 kg
FCA 120	487 mm	130 mm	122 mm	4,7 kg
FCA 130	689 mm	130 mm	122 mm	5,7 kg

Drying

Adsorption dryer up to 16 bar – heatless regeneration – DPS.. series



Scope of supply

Ready-to-use adsorption dryer including initial desiccant filling and selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Adsorption dryer with C1 electronic control unit ; pre- and after-filter (DPS 1-100 only) ; option for additional activated carbon tower (A) and/or pressure dew-point dependent control (H)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.		Price	Prod.-grp.
DPS 1	8 m ³ /h	16 bar	G 3/8	1.650 €	22	DPS 1 A	2.228 €	22
DPS 2	15 m ³ /h	16 bar	G 3/8	1.830 €	22	DPS 2 A	2.471 €	22
DPS 3	25 m ³ /h	16 bar	G 3/8	2.100 €	22	DPS 3 A	2.835 €	22
DPS 4	35 m ³ /h	16 bar	G 3/8	2.350 €	22	DPS 4 A	3.133 €	22
DPS 6	57 m ³ /h	16 bar	G 1/2	2.990 €	22	DPS 6 A	4.037 €	22
DPS 7	72 m ³ /h	16 bar	G 1/2	3.290 €	22	DPS 7 A	4.387 €	22
DPS 8	82 m ³ /h	16 bar	G 1/2	3.790 €	22	DPS 8 A	5.017 €	22
DPS 10	110 m ³ /h	16 bar	G 1	5.450 €	23	DPS 10 A	7.370 €	23
DPS 15	150 m ³ /h	16 bar	G 1	5.850 €	23	DPS 15 A	7.878 €	23
DPS 20	200 m ³ /h	16 bar	G 1	6.350 €	23	DPS 20 A	8.481 €	23
DPS 25	260 m ³ /h	16 bar	G 1	6.950 €	23	DPS 25 A	9.346 €	23
DPS 30	320 m ³ /h	16 bar	G 1 ½	8.600 €	23	DPS 30 A	11.376 €	23
DPS 40	410 m ³ /h	16 bar	G 1 ½	9.500 €	23	DPS 40 A	12.543 €	23
DPS 60	590 m ³ /h	16 bar	G 1 ½	11.300 €	23	DPS 60 A	14.664 €	23
DPS 80	770 m ³ /h	16 bar	G 2	13.950 €	23	DPS 80 A	18.323 €	23
DPS 100	1.000 m ³ /h	16 bar	G 2	16.250 €	23	DPS 100 A	21.039 €	23
DPS 120	1.200 m ³ /h	11 bar	DN 50	21.500 €	24			
DPS 150	1.480 m ³ /h	11 bar	DN 65	23.900 €	24			
DPS 210	2.080 m ³ /h	11 bar	DN 65	27.400 €	24			
DPS 240	2.430 m ³ /h	11 bar	DN 80	32.750 €	24			
DPS 290	2.930 m ³ /h	11 bar	DN 80	35.750 €	24			
DPS 370	3.700 m ³ /h	11 bar	DN 100	43.500 €	24			
DPS 510	5.080 m ³ /h	11 bar	DN 100	50.400 €	24			
DPS 630	6.290 m ³ /h	11 bar	DN 125	56.500 €	24			

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature

i Adsorption dryer for higher volume flows, bigger connection sizes or further modifications are available on request.

Volume flow conversion factors for operating conditions deviating from reference conditions

Operating pressure	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
		0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00

Inlet temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C ^{*2}	60°C ^{*2}
		1,00	1,00	1,00	0,97	0,87	0,80	0,64

*2 –DPS10 to DPS630 only

For conversion the lowest appearing operating pressure respectively maximum (highest) temperature must be considered.

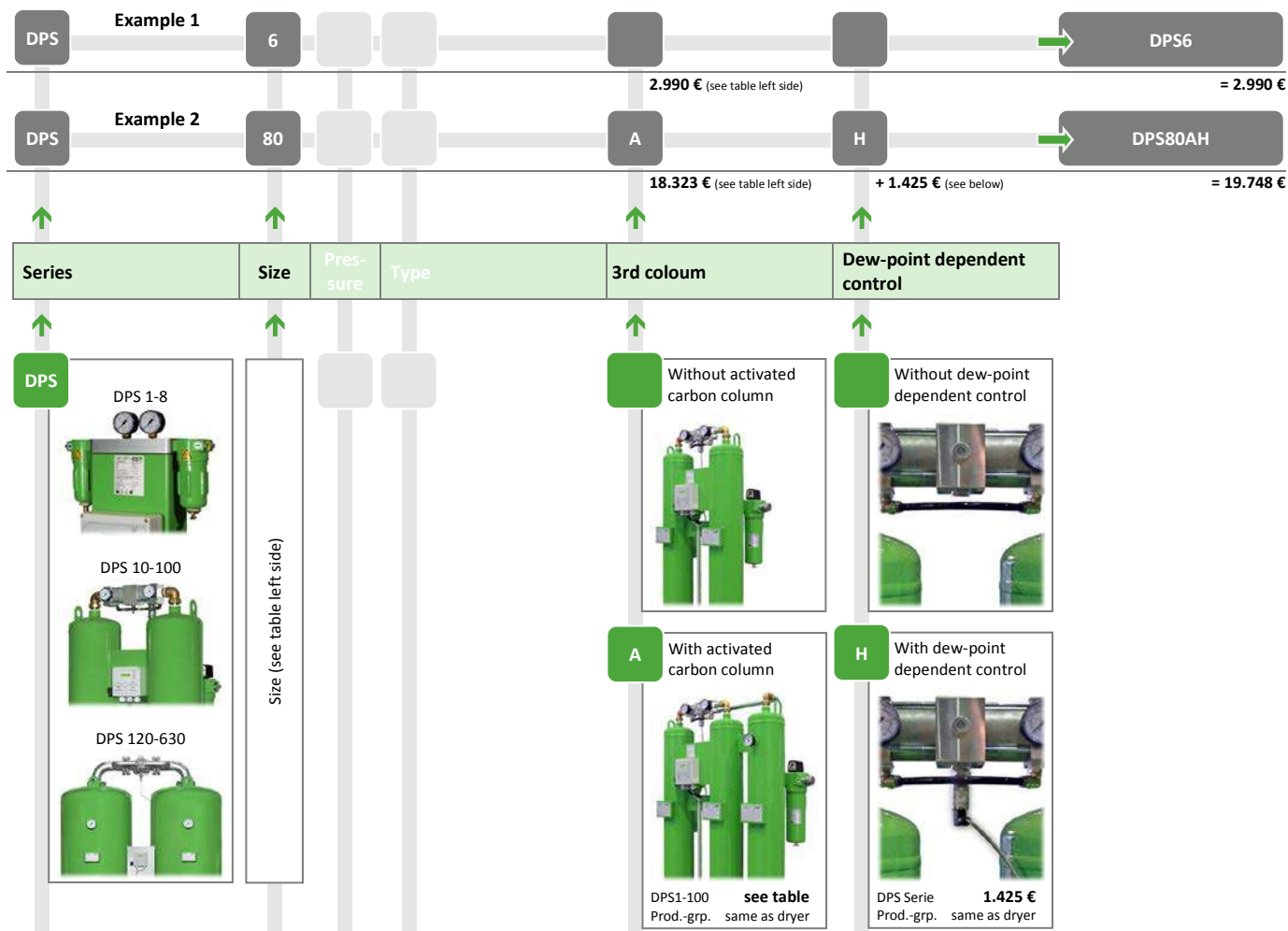
For a comprehensive description of how to use the conversion factors, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Drying

Adsorption dryer up to 16 bar – heatless regeneration – DPS.. series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DPS 1	450 mm	312 mm	185 mm	11 kg	DPS 1 A	450 mm	412 mm	210 mm	14 kg
DPS 2	625 mm	312 mm	185 mm	15 kg	DPS 2 A	625 mm	412 mm	210 mm	20 kg
DPS 3	875 mm	312 mm	185 mm	20 kg	DPS 3 A	875 mm	412 mm	210 mm	27 kg
DPS 4	1125 mm	312 mm	185 mm	25 kg	DPS 4 A	1125 mm	412 mm	210 mm	35 kg
DPS 6	1180 mm	484 mm	220 mm	45 kg	DPS 6 A	1180 mm	614 mm	245 mm	65 kg
DPS 7	1405 mm	484 mm	220 mm	54 kg	DPS 7 A	1405 mm	614 mm	245 mm	78 kg
DPS 8	1605 mm	484 mm	220 mm	62 kg	DPS 8 A	1605 mm	614 mm	245 mm	90 kg
DPS 10	1460 mm	675 mm	515 mm	126 kg	DPS 10 A	1460 mm	955 mm	515 mm	173 kg
DPS 15	1700 mm	675 mm	515 mm	142 kg	DPS 15 A	1700 mm	955 mm	515 mm	195 kg
DPS 20	1720 mm	675 mm	515 mm	180 kg	DPS 20 A	1720 mm	955 mm	515 mm	250 kg
DPS 25	1735 mm	675 mm	515 mm	220 kg	DPS 25 A	1735 mm	985 mm	515 mm	300 kg
DPS 30	1830 mm	745 mm	555 mm	250 kg	DPS 30 A	1830 mm	1130 mm	555 mm	350 kg
DPS 40	1840 mm	755 mm	570 mm	280 kg	DPS 40 A	1840 mm	1140 mm	570 mm	395 kg
DPS 60	1870 mm	775 mm	600 mm	355 kg	DPS 60 A	1870 mm	1180 mm	600 mm	525 kg
DPS 80	2045 mm	1045 mm	715 mm	470 kg	DPS 80 A	2045 mm	1450 mm	715 mm	630 kg
DPS 100	2060 mm	1050 mm	750 mm	560 kg	DPS 100 A	2060 mm	1450 mm	750 mm	740 kg
DPS 120	1975 mm	1110 mm	670 mm	670 kg					
DPS 150	2070 mm	1250 mm	870 mm	850 kg					
DPS 210	2090 mm	1340 mm	920 mm	1080 kg					
DPS 240	2185 mm	1520 mm	970 mm	1300 kg					
DPS 290	2200 mm	1585 mm	1000 mm	1490 kg					
DPS 370	2340 mm	1850 mm	1130 mm	1930 kg					
DPS 510	2600 mm	1870 mm	1160 mm	2400 kg					
DPS 630	2780 mm	2350 mm	1350 mm	3100 kg					

Drying

Adsorption dryer up to 420 bar – heatless regeneration – DHW.. series



Scope of supply

Ready-to-use adsorption dryer including initial desiccant filling and selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Adsorption dryer with C1 electronic control unit ; pre- and after-filter ;

option for additional activated carbon tower (A) and/or pressure dew-point dependent control (H)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.
DHW 11 /50	40 m ³ /h ^{*1}	50 bar	G 1/2	6.995 €	31
DHW 19 /50	85 m ³ /h ^{*1}	50 bar	G 1/2	7.153 €	31
DHW 39 /50	180 m ³ /h ^{*1}	50 bar	G 1/2	7.549 €	31
DHW 49 /50	225 m ³ /h ^{*1}	50 bar	G 1/2	9.382 €	31
DHW 72 /50	330 m ³ /h ^{*1}	50 bar	G 1/2	11.093 €	31
DHW 96 /50	440 m ³ /h ^{*1}	50 bar	G 1/2	12.896 €	31
DHW 156 /50	770 m ³ /h ^{*1}	50 bar	G 3/4 ^{*2}	15.321 €	31
DHW 239 /50	1.170 m ³ /h ^{*1}	50 bar	G 3/4 ^{*2}	17.896 €	31
DHW 5 /100	70 m ³ /h ^{*1}	100 bar	G 1/2	13.952 €	31
DHW 9 /100	85 m ³ /h ^{*1}	100 bar	G 1/2	14.625 €	31
DHW 12 /100	145 m ³ /h ^{*1}	100 bar	G 1/2	17.123 €	31
DHW 24 /100	270 m ³ /h ^{*1}	100 bar	G 1/2	19.009 €	31
DHW 37 /100	410 m ³ /h ^{*1}	100 bar	G 1/2	23.344 €	31
DHW 58 /100	750 m ³ /h ^{*1}	100 bar	G 1/2 ^{*2}	29.750 €	31
DHW 5 /250	115 m ³ /h ^{*1}	250 bar	G 1/2	17.111 €	31
DHW 9 /250	170 m ³ /h ^{*1}	250 bar	G 1/2	17.748 €	31
DHW 12 /250	275 m ³ /h ^{*1}	250 bar	G 1/2	19.875 €	31
DHW 24 /250	490 m ³ /h ^{*1}	250 bar	G 1/2	24.155 €	31
DHW 37 /250	730 m ³ /h ^{*1}	250 bar	G 1/2	29.346 €	31
DHW 58 /250	1.450 m ³ /h ^{*1}	250 bar	G 1/2 ^{*2}	33.879 €	31
DHW 5 /350	160 m ³ /h ^{*1}	350 bar	G 1/2	18.455 €	31
DHW 9 /350	235 m ³ /h ^{*1}	350 bar	G 1/2	19.655 €	31
DHW 12 /350	320 m ³ /h ^{*1}	350 bar	G 1/2	21.423 €	31
DHW 24 /350	580 m ³ /h ^{*1}	350 bar	G 1/2	24.296 €	31
DHW 37 /350	860 m ³ /h ^{*1}	350 bar	G 1/2	30.412 €	31
DHW 58 /350	1.750 m ³ /h ^{*1}	350 bar	G 1/2 ^{*2}	38.875 €	31
DHW 5 /420	150 m ³ /h ^{*1}	420 bar	G 1/2	23.756 €	31
DHW 9 /420	225 m ³ /h ^{*1}	420 bar	G 1/2	26.112 €	31
DHW 12 /420	315 m ³ /h ^{*1}	420 bar	G 1/2	28.142 €	31
DHW 24 /420	560 m ³ /h ^{*1}	420 bar	G 1/2	42.539 €	31
DHW 37 /420	850 m ³ /h ^{*1}	420 bar	G 1/2 ^{*2}	48.614 €	31

*1 – refers to 1 bar(a) and 20°C at maximum operating pressure and 35°C inlet temperature

*2 – alternative connection sizes available



High pressure adsorption dryer for higher volume flows, higher operating pressures, bigger connection sizes or further modifications are available on request.



Sizing for your individual operating conditions

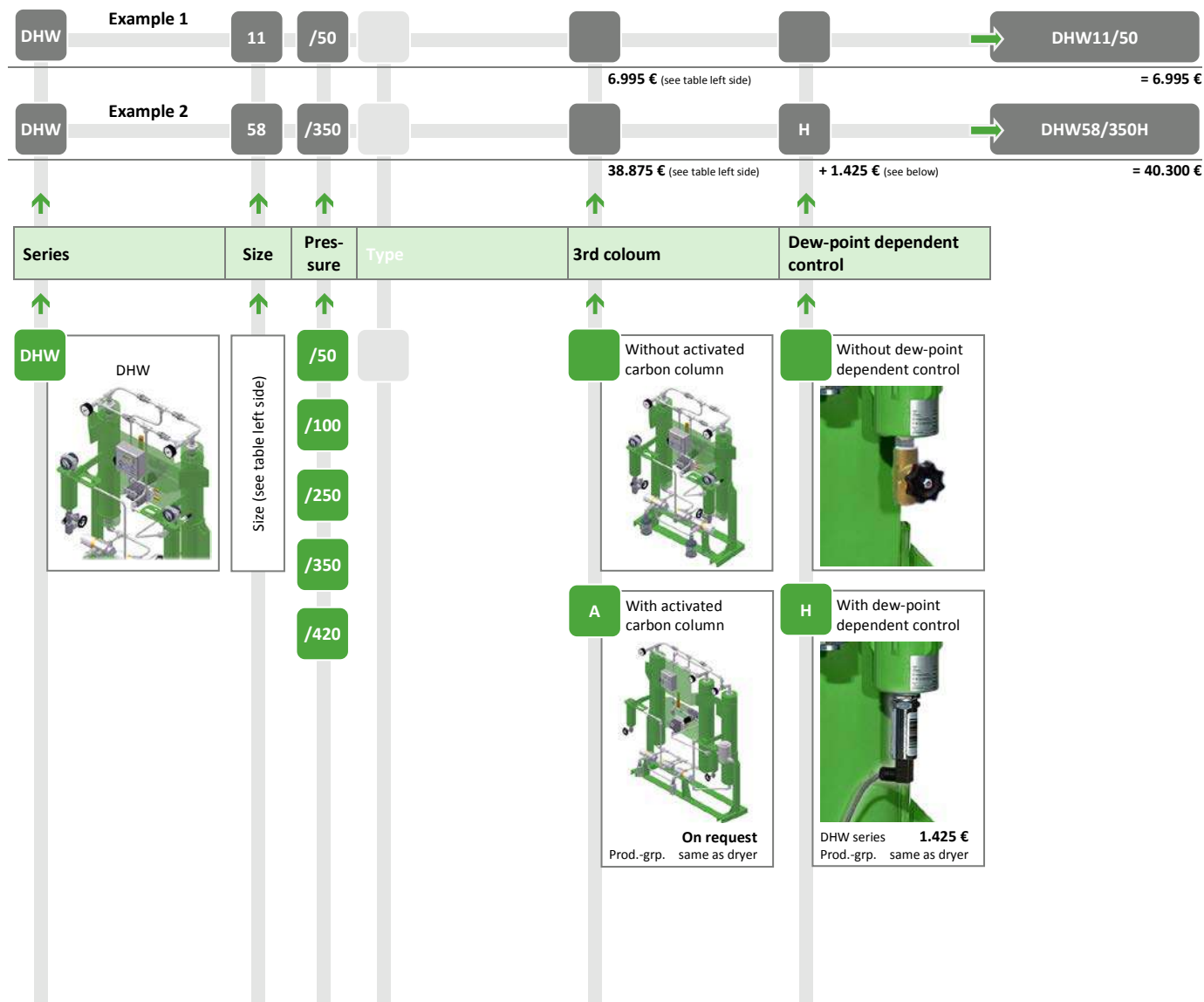
Please contact the technical support of FST.

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Drying

Adsorption dryer up to 420 bar – heatless regeneration – DHW.. series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DHW 11 /50	1155 mm	735 mm	465 mm	65 kg	DHW 5 /250	1030 mm	800 mm	430 mm	127 kg
DHW 19 /50	1425 mm	735 mm	465 mm	80 kg	DHW 9 /250	1260 mm	800 mm	430 mm	139 kg
DHW 39 /50	1505 mm	810 mm	480 mm	105 kg	DHW 12 /250	1130 mm	800 mm	430 mm	150 kg
DHW 49 /50	1715 mm	810 mm	480 mm	115 kg	DHW 24 /250	1260 mm	850 mm	445 mm	196 kg
DHW 72 /50	1780 mm	930 mm	500 mm	150 kg	DHW 37 /250	1300 mm	910 mm	460 mm	252 kg
DHW 96 /50	1785 mm	980 mm	525 mm	180 kg	DHW 58 /250	1600 mm	960 mm	470 mm	349 kg
DHW 156 /50	1870 mm	1080 mm	575 mm	240 kg					
DHW 239 /50	1870 mm	1190 mm	630 mm	390 kg	DHW 5 /350	1050 mm	840 mm	700 mm	177 kg
					DHW 9 /350	1280 mm	840 mm	700 mm	189 kg
DHW 5 /100	1030 mm	800 mm	430 mm	105 kg	DHW 12 /350	1150 mm	890 mm	725 mm	210 kg
DHW 9 /100	1260 mm	800 mm	430 mm	111 kg	DHW 24 /350	1280 mm	940 mm	750 mm	262 kg
DHW 12 /100	1130 mm	800 mm	430 mm	120 kg	DHW 37 /350	1320 mm	1000 mm	780 mm	327 kg
DHW 24 /100	1260 mm	850 mm	445 mm	145 kg	DHW 58 /350	1620 mm	1050 mm	805 mm	441 kg
DHW 37 /100	1300 mm	910 mm	460 mm	179 kg					
DHW 58 /100	1600 mm	960 mm	470 mm	254 kg	DHW 5 /420	1050 mm	840 mm	700 mm	184 kg
					DHW 9 /420	1280 mm	840 mm	700 mm	196 kg
					DHW 12 /420	1150 mm	890 mm	725 mm	220 kg
					DHW 24 /420	1280 mm	940 mm	750 mm	280 kg
					DHW 37 /420	1320 mm	1000 mm	780 mm	350 kg

Drying

Adsorption dryer up to 11 bar – heat regeneration – DTS..V.. series



Scope of supply

Ready-to-use adsorption dryer including initial desiccant filling and selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Adsorption dryer with C10 electronic control unit ; option for thermal insulation (/TI) and/or pressure dew-point dependent control (H)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.		Price	Prod.-grp.
DTS 45 V	410 m ³ /h	11 bar	DN 40	26.170 €	21	DTS 45 V/TI	29.241 €	21
DTS 55 V	500 m ³ /h	11 bar	DN 40	26.440 €	21	DTS 55 V/TI	29.511 €	21
DTS 65 V	645 m ³ /h	11 bar	DN 50	29.950 €	21	DTS 65 V/TI	33.111 €	21
DTS 85 V	790 m ³ /h	11 bar	DN 50	30.460 €	21	DTS 85 V/TI	33.621 €	21
DTS 125 V	1.210 m ³ /h	11 bar	DN 80	35.610 €	21	DTS 125 V/TI	38.941 €	21
DTS 155 V	1.490 m ³ /h	11 bar	DN 80	39.230 €	21	DTS 155 V/TI	43.067 €	21
DTS 215 V	2.100 m ³ /h	11 bar	DN 80	43.890 €	21	DTS 215 V/TI	47.728 €	21
DTS 250 V	2.440 m ³ /h	11 bar	DN 100	51.220 €	21	DTS 250 V/TI	55.058 €	21
DTS 300 V	2.950 m ³ /h	11 bar	DN 100	54.950 €	21	DTS 300 V/TI	58.788 €	21
DTS 380 V	3.750 m ³ /h	11 bar	DN 100	58.750 €	21	DTS 380 V/TI	62.588 €	21
DTS 430 V	4.250 m ³ /h	11 bar	DN 150	69.000 €	21	DTS 430 V/TI	73.287 €	21
DTS 500 V	4.930 m ³ /h	11 bar	DN 150	77.680 €	21	DTS 500 V/TI	81.967 €	21
DTS 540 V	5.330 m ³ /h	11 bar	DN 150	84.570 €	21	DTS 540 V/TI	88.857 €	21
DTS 650 V	6.510 m ³ /h	11 bar	DN 150	90.310 €	21	DTS 650 V/TI	94.859 €	21
DTS 720 V	7.180 m ³ /h	11 bar	DN 150	95.380 €	21	DTS 720 V/TI	100.190 €	21
DTS 860 V	8.600 m ³ /h	11 bar	DN 200	140.830 €	21	DTS 860 V/TI	145.901 €	21
DTS 940 V	9.400 m ³ /h	11 bar	DN 200	148.440 €	21	DTS 940 V/TI	153.835 €	21
DTS 1100 V	11.000 m ³ /h	11 bar	DN 200	158.620 €	21	DTS 1100 V/TI	164.298 €	21
DTS 1280 V	12.800 m ³ /h	11 bar	DN 200	180.550 €	21	DTS 1280 V/TI	186.510 €	21
DTS 1470 V	14.700 m ³ /h	11 bar	DN 200	196.460 €	21	DTS 1470 V/TI	202.734 €	21

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature, 25°C ambient temperature at 50% relative humidity



Heat regenerated adsorption dryer for higher volume flows, higher operating pressures, bigger connection sizes or further modifications are available on request.



Sizing for your individual operating conditions

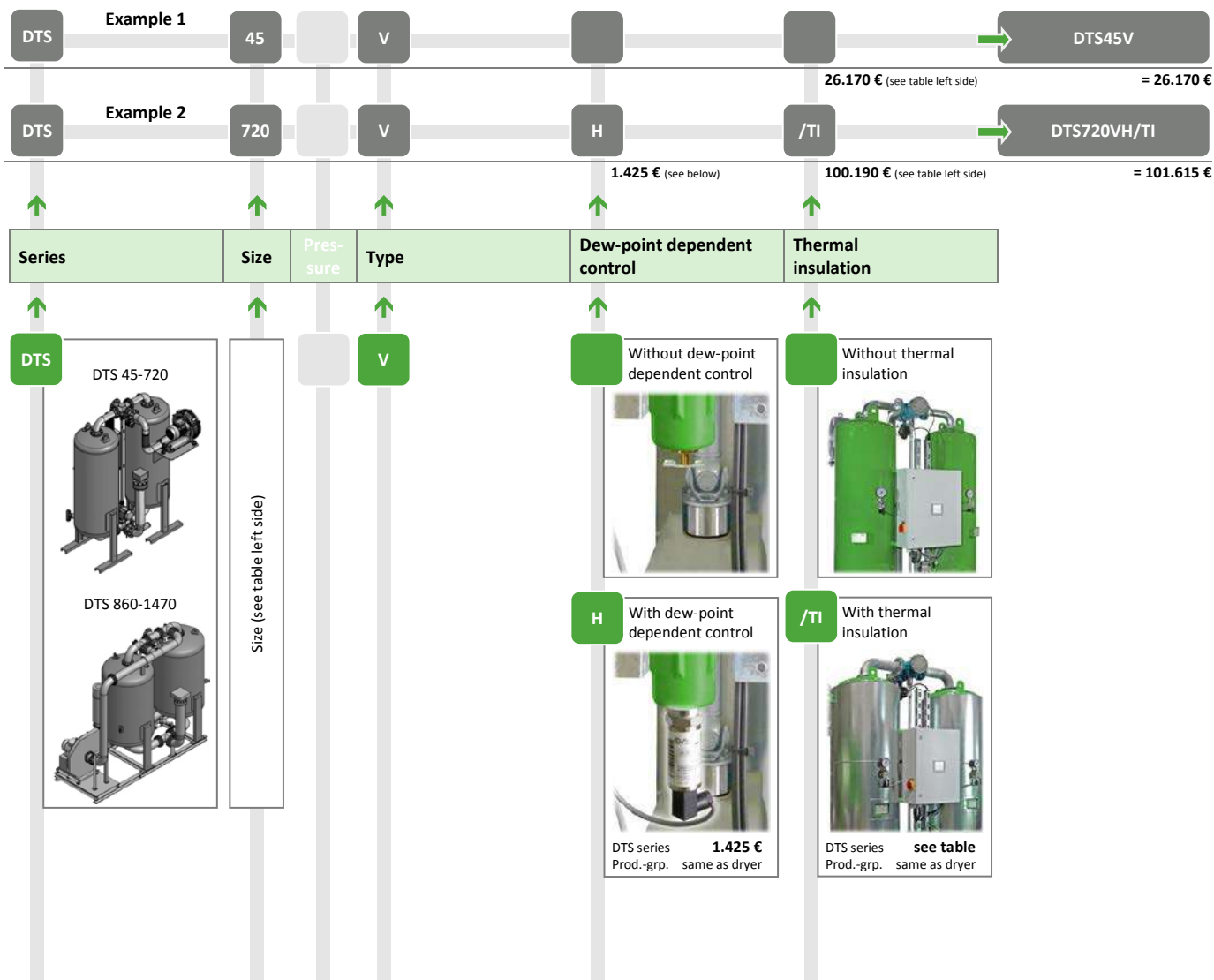
Please contact the technical support of FST.

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Drying

Adsorption dryer up to 11 bar – heat regeneration – DTS.V.. series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DTS 45 V	2225 mm	1190 mm	1000 mm	529 kg	DTS 45 V/TI	2225 mm	1240 mm	1000 mm	545 kg
DTS 55 V	2225 mm	1190 mm	1000 mm	560 kg	DTS 55 V/TI	2225 mm	1240 mm	1000 mm	575 kg
DTS 65 V	2325 mm	1310 mm	1085 mm	640 kg	DTS 65 V/TI	2325 mm	1360 mm	1085 mm	660 kg
DTS 85 V	2325 mm	1310 mm	1085 mm	780 kg	DTS 85 V/TI	2325 mm	1360 mm	1085 mm	800 kg
DTS 125 V	2705 mm	1460 mm	1150 mm	1020 kg	DTS 125 V/TI	2705 mm	1510 mm	1150 mm	1045 kg
DTS 155 V	2720 mm	1510 mm	1230 mm	1320 kg	DTS 155 V/TI	2720 mm	1560 mm	1230 mm	1350 kg
DTS 215 V	2770 mm	1600 mm	1460 mm	1690 kg	DTS 215 V/TI	2770 mm	1650 mm	1460 mm	1725 kg
DTS 250 V	2885 mm	2015 mm	1475 mm	1900 kg	DTS 250 V/TI	2885 mm	2065 mm	1475 mm	1935 kg
DTS 300 V	2920 mm	2045 mm	1505 mm	2400 kg	DTS 300 V/TI	2920 mm	2095 mm	1505 mm	2440 kg
DTS 380 V	2970 mm	2160 mm	1590 mm	2800 kg	DTS 380 V/TI	2970 mm	2210 mm	1590 mm	2845 kg
DTS 430 V	3210 mm	2370 mm	1560 mm	3800 kg	DTS 430 V/TI	3210 mm	2420 mm	1560 mm	3850 kg
DTS 500 V	3235 mm	2475 mm	1745 mm	4050 kg	DTS 500 V/TI	3235 mm	2525 mm	1745 mm	4100 kg
DTS 540 V	3250 mm	2520 mm	1870 mm	4220 kg	DTS 540 V/TI	3250 mm	2570 mm	1870 mm	4275 kg
DTS 650 V	3520 mm	2520 mm	1920 mm	5000 kg	DTS 650 V/TI	3520 mm	2570 mm	1920 mm	6065 kg
DTS 720 V	3560 mm	2640 mm	1985 mm	5650 kg	DTS 720 V/TI	3560 mm	2690 mm	1985 mm	5720 kg
DTS 860 V	3590 mm	4400 mm	1995 mm	6380 kg	DTS 860 V/TI	3590 mm	4450 mm	1995 mm	6455 kg
DTS 940 V	3610 mm	4500 mm	1995 mm	7520 kg	DTS 940 V/TI	3610 mm	4550 mm	1995 mm	7595 kg
DTS 1100 V	3650 mm	4750 mm	1995 mm	8730 kg	DTS 1100 V/TI	3650 mm	4800 mm	1995 mm	8815 kg
DTS 1280 V	4050 mm	4945 mm	2030 mm	8730 kg	DTS 1280 V/TI	4050 mm	4995 mm	2030 mm	8820 kg
DTS 1470 V	4050 mm	5145 mm	2055 mm	8730 kg	DTS 1470 V/TI	4050 mm	5195 mm	2055 mm	8830 kg

Drying

Adsorption dryer up to 11 bar – heat regeneration – DTS..BVL.. series



Scope of supply

Ready-to-use adsorption dryer including initial desiccant filling and selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Adsorption dryer with C10 electronic control unit ; option for thermal insulation (/TI) and/or pressure dew-point dependent control (H)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.		Price	Prod.-grp.
DTS 125 BVL	1.230 m ³ /h	11 bar	DN 80	46.931 €	21	DTS 125 BVL/TI	50.262 €	21
DTS 155 BVL	1.540 m ³ /h	11 bar	DN 80	51.818 €	21	DTS 155 BVL/TI	55.655 €	21
DTS 215 BVL	2.140 m ³ /h	11 bar	DN 80	57.233 €	21	DTS 215 BVL/TI	61.071 €	21
DTS 250 BVL	2.470 m ³ /h	11 bar	DN 100	67.093 €	21	DTS 250 BVL/TI	70.931 €	21
DTS 300 BVL	2.990 m ³ /h	11 bar	DN 100	71.701 €	21	DTS 300 BVL/TI	75.539 €	21
DTS 380 BVL	3.800 m ³ /h	11 bar	DN 100	75.563 €	21	DTS 380 BVL/TI	79.401 €	21
DTS 430 BVL	4.300 m ³ /h	11 bar	DN 150	86.710 €	21	DTS 430 BVL/TI	90.997 €	21
DTS 500 BVL	4.980 m ³ /h	11 bar	DN 150	95.705 €	21	DTS 500 BVL/TI	99.992 €	21
DTS 540 BVL	5.390 m ³ /h	11 bar	DN 150	104.560 €	21	DTS 540 BVL/TI	108.847 €	21
DTS 650 BVL	6.540 m ³ /h	11 bar	DN 150	110.301 €	21	DTS 650 BVL/TI	114.850 €	21
DTS 720 BVL	7.220 m ³ /h	11 bar	DN 150	115.976 €	21	DTS 720 BVL/TI	120.786 €	21
DTS 860 BVL	8.620 m ³ /h	11 bar	DN 200	162.159 €	21	DTS 860 BVL/TI	167.230 €	21
DTS 940 BVL	9.400 m ³ /h	11 bar	DN 200	170.542 €	21	DTS 940 BVL/TI	175.937 €	21
DTS 1100 BVL	11.100 m ³ /h	11 bar	DN 200	180.723 €	21	DTS 1100 BVL/TI	186.401 €	21
DTS 1280 BVL	12.800 m ³ /h	11 bar	DN 200	203.174 €	21	DTS 1280 BVL/TI	209.134 €	21
DTS 1470 BVL	14.700 m ³ /h	11 bar	DN 200	219.085 €	21	DTS 1470 BVL/TI	225.359 €	21

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature



Heat regenerated adsorption dryer for higher volume flows, higher operating pressures, bigger connection sizes or further modifications are available on request.



Sizing for your individual operating conditions

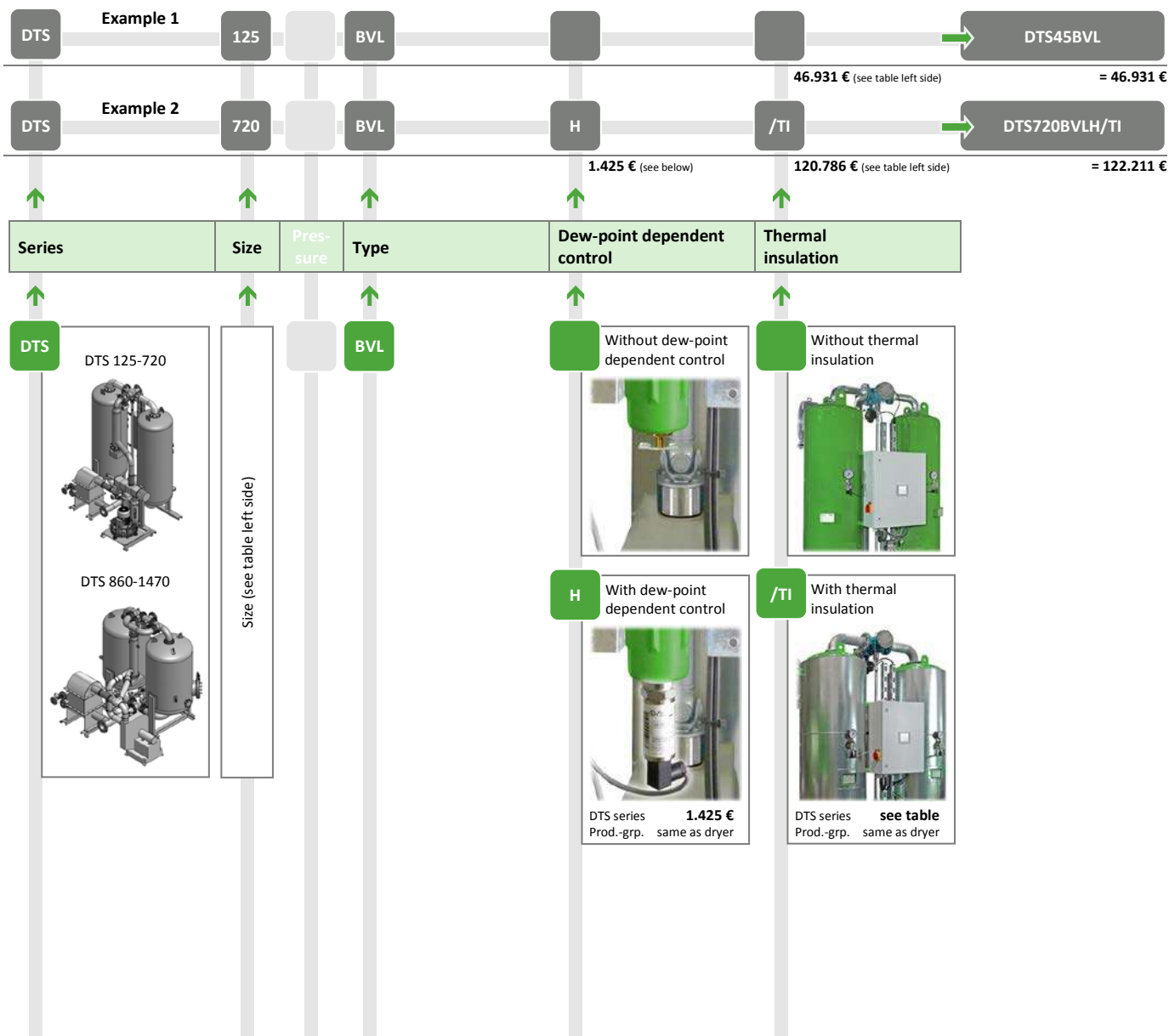
Please contact the technical support of FST.

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Drying

Adsorption dryer up to 11 bar – heat regeneration – DTS..BVL.. series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DTS 125 BVL	2705 mm	1460 mm	1370 mm	1380 kg	DTS 125 BVL/TI	2705 mm	1510 mm	1370 mm	1405 kg
DTS 155 BVL	2720 mm	1510 mm	1450 mm	1620 kg	DTS 155 BVL/TI	2720 mm	1560 mm	1450 mm	1650 kg
DTS 215 BVL	2770 mm	1600 mm	1620 mm	2040 kg	DTS 215 BVL/TI	2770 mm	1650 mm	1620 mm	2075 kg
DTS 250 BVL	2885 mm	2015 mm	1620 mm	2160 kg	DTS 250 BVL/TI	2885 mm	2065 mm	1620 mm	2195 kg
DTS 300 BVL	2920 mm	2000 mm	1715 mm	2880 kg	DTS 300 BVL/TI	2920 mm	2095 mm	1715 mm	2920 kg
DTS 380 BVL	2970 mm	2160 mm	1890 mm	3420 kg	DTS 380 BVL/TI	2970 mm	2210 mm	1890 mm	3465 kg
DTS 430 BVL	3210 mm	2370 mm	2000 mm	4530 kg	DTS 430 BVL/TI	3210 mm	2420 mm	2000 mm	4580 kg
DTS 500 BVL	3235 mm	2475 mm	2060 mm	4860 kg	DTS 500 BVL/TI	3235 mm	2525 mm	2060 mm	4915 kg
DTS 540 BVL	3250 mm	2520 mm	2200 mm	5100 kg	DTS 540 BVL/TI	3250 mm	2570 mm	2200 mm	5155 kg
DTS 650 BVL	3520 mm	2520 mm	2335 mm	6000 kg	DTS 650 BVL/TI	3520 mm	2570 mm	2335 mm	6065 kg
DTS 720 BVL	3560 mm	2640 mm	2350 mm	6780 kg	DTS 720 BVL/TI	3560 mm	2690 mm	2350 mm	6850 kg
DTS 860 BVL	3590 mm	3150 mm	2850 mm	7680 kg	DTS 860 BVL/TI	3590 mm	3200 mm	2850 mm	7755 kg
DTS 940 BVL	3610 mm	3250 mm	2900 mm	9000 kg	DTS 940 BVL/TI	3610 mm	3300 mm	2900 mm	9080 kg
DTS 1100 BVL	3650 mm	3470 mm	3430 mm	10500 kg	DTS 1100 BVL/TI	3650 mm	3520 mm	3430 mm	10585 kg
DTS 1280 BVL	4050 mm	3800 mm	3600 mm	12100 kg	DTS 1280 BVL/TI	4050 mm	3850 mm	3600 mm	12190 kg
DTS 1470 BVL	4050 mm	4000 mm	3700 mm	13750 kg	DTS 1470 BVL/TI	4050 mm	4050 mm	3700 mm	13850 kg

Drying

Dryer accessories – DA.. series

Scope of supply



Accessories, ordered as option together with a dryer, will be mounted ready-to-use to the dryer or, in order to avoid transport damages, pre-installed / separately enclosed.

Accessories, ordered separately (retrofit), will be supplied as single parts without connecting material (e.g. counter flange, bolts, nuts, and seals). Transport packing is not included in the scope of supply and is charged separately.

Operating manuals are available in electronic format on our web site:
→ www.fstweb.de → „Download“ → „Operating Manuals“

1 Start-up device (pressure maintaining valve) for all adsorption dryers

Start-up device	Suitable for dryer	Maximum operating pressure	Size	Opening pressure	Price	Prod.-grp.
DA-VPM-B15/16	DPS1 - DPS8	16 bar	G 1/2	3-5 bar	225 €	39
DA-VPM-B20/16	---	16 bar	G 3/4	3-5 bar	248 €	39
DA-VPM-B25/16	DPS10 - DPS25	16 bar	G 1	3-5 bar	285 €	39
DA-VPM-B32/16	---	16 bar	G 1 ¼	3-5 bar	355 €	39
DA-VPM-B40/16	DPS30-60, DTS 45-55	16 bar	G 1 ½	3-5 bar	451 €	39
DA-VPM-B50/16	DPS80-120, DTS65-85	16 bar	G 2	3-5 bar	744 €	39
DA-VPM-B65/16	DPS150 - DPS210	16 bar	G 2 ½	3-5 bar	1.144 €	39
DA-VPM-F50/16	DPS80-120, DTS65-85	16 bar	DN 50	3-5 bar	1.461 €	39
DA-VPM-F080/11-APE-KGT	DPS240-290, DTS125-215	11 bar	DN 80	3-4 bar	1.076 €	39
DA-VPM-F100/11-APE-KGT	DPS370-510, DTS250-380	11 bar	DN 100	3-4 bar	1.144 €	39
DA-VPM-F150/11-APE-KGT	DPS630, DTS430-720	11 bar	DN 150	3-4 bar	1.665 €	39
DA-VPM-F200/11-APE-KGT	DTS860 - DTS1470	11 bar	DN 200	3-4 bar	2.438 €	39
DA-VPM-F250/11-APE-KGT	> DPS630, > DTS1470	11 bar	DN 250	3-4 bar	3.688 €	39
DA-VPM-B15/450	DHW, DHM	450 bar	G 1/2	*1	1.097 €	39
DA-VPM-B20/415	DHW, DHM	415 bar	G 3/4	3-400 bar	2.875 €	39

*1 - available in 3 different ranges: 10-80 bar, 80-150 bar, 140 – 450 bar, please specify with order

2 Regeneration gas feedback for heatless adsorption dryer (DPS 10-100)

Regeneration gas feedback	Suitable for dryer	Maximum operating pressure	Size	Price option dryer	Price retrofit	Prod.-grp.
	DPS1 - DPS8	16 bar			Standard	
DA-PWT-DPS10-100-02	DPS10 - DPS100	16 bar	Ø12-1/2"	97 €	97 €	39

Drying

Dryer accessories – DA.. series

3 Automatic pressure control of the regeneration air for heatless adsorption dryer (DPS 10-100)

Regeneration air pressure control	Suitable for dryer	Maximum operating pressure	Price option dryer	Price Retrofit	Prod.-grp.
DA-RGR-DPS10-30	DPS10-30	16	759 €	759 €	39
DA-RGR-DPS40-100	DPS40-100	16	965 €	965 €	39
DA-RGR-DPS120-150	DPS120-150	11	1.278 €	---	39
DA-RGR-DPS210-290	DPS210-290	11	1.482 €	---	39
DA-RGR-DPS370-630	DPS370-630	11	2.039 €	---	39

4 Operations control for heatless adsorption dryer (DPS, DHW, DHM)

Operations control	Suitable for dryer	Maximum operating pressure	Price option dryer	Price Retrofit	Prod.-grp.
DA-EFC-C1	DPS, DHW, DHM	25/40/100/250/400 bar	755 €	755 € ^{*1}	39

*1 - only for dryers with C1-controller from version 2.1 on, max. operating pressure is to specify

5 Quick shut-off valve for heatless adsorption dryer (DPS 1-100)

Quick shut-off valve	Suitable for dryer	Maximum operating pressure	Size	Price option dryer	Price Retrofit	Prod.-grp.
DA-VQC-B15/40-2/2-SS	DPS1 - DPS8	40 bar	G 1/2	612 €	612 €	39
DA-VQC-B20/40-2/2-SS	---	40 bar	G 3/4	650 €	650 €	39
DA-VQC-B25/40-2/2-SS	DPS10 - DPS25	40 bar	G 1	778 €	778 €	39
DA-VQC-B40/40-2/2-SS	DPS30 - DPS60	40 bar	G 1 ½	1.025 €	1.025 €	39
DA-VQC-B50/40-2/2-SS	DPS80 - DPS100	40 bar	G 2	1.128 €	1.128 €	39

Drying

Dryer accessories – DA.. series

Scope of supply



Accessories, ordered as option together with a dryer, will be mounted ready-to-use to the dryer or, in order to avoid transport damages, pre-installed / separately enclosed.

Accessories, ordered separately (retrofit), will be supplied as single parts without connecting material (e.g. counter flange, bolts, nuts, and seals). Transport packing is not included in the scope of supply and is charged separately.

Operating manuals are available in electronic format on our web site:
→ www.fstweb.de → „Download“ → „Operating Manuals“

6 Regeneration air inlet filter for heat regenerated adsorption dryer (DTS)

Inlet filter	Suitable for dryer	Filtration grade	Price option dryer	Price Retrofit	Prod.-grp.
DA-FIF-DTS45-55-F7G4	DTS45-55, WVM40-50 *1	DIN EN 779-G4	365 €	365 €	39
DA-FIF-DTS65-85-F7G4	DTS65-85, WVM65-85 *1	DIN EN 779-G4	369 €	369 €	39
DA-FIF-DTS125-215-F12G4	DTS125-215, WVM120-200 *1	DIN EN 779-G4	575 €	575 €	39
DA-FIF-DTS250-500-F19G4	DTS250-500, WVM235-475 *1	DIN EN 779-G4	824 €	824 €	39
DA-FIF-DTS540-650-F19G4	DTS540-650, WVM525-620 *1	DIN EN 779-G4	887 €	887 €	39
DA-FIF-DTS720-1100-F21G4	DTS720-1100, WVM710-1080 *1	DIN EN 779-G4	1.342 €	1.342 €	39
DA-FIF-DTS1280-1700-F21G4	DTS1280-1700, WVM1230-1450 *1	DIN EN 779-G4	1.342 €	1.342 €	39

*1 - for WVM dryer the \varnothing of the heater-flange need to be given to check correct flange size of conneing parts

7 Additional noise reduction for adsorption dryer (DPS, DTS)

DPS series – Noise reduction by 2-stage expansion	Suitable for dryer	Maximum operating pressure	Price option dryer	Price retrofit	Prod.-grp.
DA-NR2S-DPS10-25	DPS10 - DPS25	16 bar	505 €	505 €	39
DA-NR2S-DPS30-60	DPS30 - DPS60	16 bar	688 €	688 €	39
DA-NR2S-DPS80-100	DPS80 - DPS100	16 bar	713 €	713 €	39
DA-NR2S-DPS120-630	DPS120 - DPS630	16 bar	828 €	828 €	39

DTS series - Silencer for regeneration air outlet	Suitable for dryer	Size	Price option dryer	Price retrofit	Prod.-grp.
DA-FSC-RAO-DTS125-380	DTS125 - DTS380	\varnothing 100 mm x 1000 mm	572 €	572 €	39
DA-FSC-RAO-DTS250-720	DTS430 - DTS720	\varnothing 160 mm x 1000 mm	705 €	705 €	39
DA-FSC-RAO-DTS860-1470	DTS860 - DTS1470	\varnothing 200 mm x 1000 mm	763 €	763 €	39


Drying

Dryer accessories – DA.. series

8 Control units, interface modules, final position switch


		Suitable for dryer		Price option dryer	Price Retrofit	Prod.-grp.
	Pneumatic control					
DA-CP-02		DPS, DHW		1.815 €	1.815 € ^{*1}	39

1* - retrofit only for dryers, with pneumatic actuated valves.


		Suitable for dryer	Supply voltage		Price	Prod.-grp.
	Change-over control					
DA-CM1-230-NO		All series	230 V		2.068 €	39

Suitable line block valves on request

		Suitable for dryer	Supply voltage	Price option dryer	Price retrofit	Prod.-grp.
	GSM module					
DA-ETR-107		all series	24 VDC	488 €	488 €	39

		Suitable for dryer	Interface	Price option dryer	Price retrofit	Prod.-grp.
	Interface gateway					
DA-ETR-C1-RS232		DPS and DH series	RS232	195 €	on request	39
DA-ETR-C1-MODBUS-RTU-SLAVE		DPS and DH series	Modbus-RTU	1.254 €	on request	39
DA-ETR-C1-PROFIBUS-DP-SLAVE		DPS and DH series	Profibus-DP-Slave	1.254 €	on request	39
DA-ETR-C1-CANopen		DPS and DH series	CANopen	1.254 €	on request	39
DA-ETR-C10-CAN-MODBUS		DTS series	Modbus-RTU	1.965 €	on request	39
DA-ETR-C10-CAN-PROFIBUS		DTS series	Profibus-DP-Slave	1.965 €	on request	39

Other communication gateways on request.

		Suitable for dryer	Supply voltage	Price option dryer	Price retrofit	Prod.-grp.
	Final position switch main valve					
DA-ENI-IN5225-10-36VDC		DTS Serie	10...36 VDC	337 €	337 €	39

Oil vapour adsorption

Activated carbon oil vapour adsorber up to 16 bar – DSS..A series



Scope of supply

Ready-to-use oil vapour adsorber including initial activated carbon filling ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Activated carbon oil vapour adsorber, suitable for DPS dryer series ; including initial filling ; pressure gauge (not for DSS 1-8) ; oil indicator

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.
DSS 1 A	8 m ³ /h	16 bar	G 3/8	578 €	25
DSS 2 A	15 m ³ /h	16 bar	G 3/8	641 €	25
DSS 3 A	25 m ³ /h	16 bar	G 3/8	735 €	25
DSS 4 A	35 m ³ /h	16 bar	G 3/8	783 €	25
DSS 6 A	57 m ³ /h	16 bar	G 1/2	1.047 €	25
DSS 7 A	72 m ³ /h	16 bar	G 1/2	1.097 €	25
DSS 8 A	82 m ³ /h	16 bar	G 1/2	1.227 €	25
DSS 10 A	110 m ³ /h	16 bar	G 1	1.920 €	26
DSS 15 A	150 m ³ /h	16 bar	G 1	2.028 €	26
DSS 20 A	200 m ³ /h	16 bar	G 1	2.131 €	26
DSS 25 A	260 m ³ /h	16 bar	G 1	2.396 €	26
DSS 30 A	320 m ³ /h	16 bar	G 1 ½	2.776 €	26
DSS 40 A	410 m ³ /h	16 bar	G 1 ½	3.043 €	26
DSS 60 A	590 m ³ /h	16 bar	G 1 ½	3.364 €	26
DSS 80 A	770 m ³ /h	16 bar	G 2	4.373 €	26
DSS 100 A	1.000 m ³ /h	16 bar	G 2	4.789 €	26
DSS 120 A	1.200 m ³ /h	11 bar	DN 50	8.385 €	26
DSS 150 A	1.480 m ³ /h	11 bar	DN 65	9.321 €	26
DSS 210 A	2.080 m ³ /h	11 bar	DN 65	10.686 €	26
DSS 240 A	2.430 m ³ /h	11 bar	DN 80	12.773 €	26
DSS 290 A	2.930 m ³ /h	11 bar	DN 80	13.943 €	26
DSS 370 A	3.700 m ³ /h	11 bar	DN 100	16.965 €	26
DSS 510 A	5.080 m ³ /h	11 bar	DN 100	19.656 €	26
DSS 630 A	6.290 m ³ /h	11 bar	DN 125	23.165 €	26

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature

i Activated carbon oil vapour adsorber for higher volume flows or bigger connection sizes are available on request.

i The operation of an activated carbon oil vapour adsorber requires compressed air with a pressure dew-point of at least +3°C.

Volume flow conversion factors for operating conditions deviating from reference conditions

Operating pressure	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
		0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00

For conversion the lowest appearing operating pressure must be considered.

For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Oil vapour adsorption

Activated carbon oil vapour adsorber up to 16 bar – DSS..A series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight
DSS 1 A	392 mm	160 mm	210 mm	3 kg
DSS 2 A	567 mm	160 mm	210 mm	5 kg
DSS 3 A	817 mm	160 mm	210 mm	8 kg
DSS 4 A	1067 mm	160 mm	210 mm	10 kg
DSS 6 A	1107 mm	212 mm	245 mm	20 kg
DSS 7 A	1332 mm	212 mm	245 mm	24 kg
DSS 8 A	1532 mm	212 mm	245 mm	28 kg
DSS 10 A	1460 mm	265 mm	350 mm	45 kg
DSS 15 A	1700 mm	265 mm	350 mm	52 kg
DSS 20 A	1710 mm	290 mm	350 mm	67 kg
DSS 25 A	1720 mm	320 mm	350 mm	80 kg
DSS 30 A	1760 mm	345 mm	350 mm	95 kg
DSS 40 A	1820 mm	375 mm	350 mm	107 kg
DSS 60 A	1850 mm	425 mm	350 mm	143 kg
DSS 80 A	1980 mm	460 mm	400 mm	190 kg
DSS 100 A	2000 mm	515 mm	400 mm	230 kg
DSS 120 A	2020 mm	450 mm	570 mm	260 kg
DSS 150 A	2070 mm	500 mm	650 mm	325 kg
DSS 210 A	2100 mm	600 mm	745 mm	410 kg
DSS 240 A	2200 mm	650 mm	800 mm	495 kg
DSS 290 A	2200 mm	700 mm	855 mm	570 kg
DSS 370 A	2340 mm	800 mm	950 mm	715 kg
DSS 510 A	2600 mm	850 mm	1030 mm	940 kg
DSS 630 A	2820 mm	950 mm	1100 mm	1200 kg

Oil vapour adsorption

Activated carbon oil vapour adsorber up to 11 bar – DSS..A series



Scope of supply

Ready-to-use oil vapour adsorber including initial activated carbon filling ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Activated carbon oil vapour adsorber, suitable for DTS dryer series ; including initial filling ; pressure gauge ; oil indicator

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.
DSS 85 A	1.090 m ³ /h	11 bar	DN 50	7.410 €	26
DSS 125 A	1.690 m ³ /h	11 bar	DN 80	8.790 €	26
DSS 155 A	2.080 m ³ /h	11 bar	DN 80	9.360 €	26
DSS 215 A	2.920 m ³ /h	11 bar	DN 80	10.650 €	26
DSS 250 A	3.400 m ³ /h	11 bar	DN 100	11.775 €	26
DSS 300 A	4.110 m ³ /h	11 bar	DN 100	13.440 €	26
DSS 380 A	5.230 m ³ /h	11 bar	DN 100	16.050 €	26
DSS 430 A	5.920 m ³ /h	11 bar	DN 100	19.710 €	26
DSS 500 A	6.880 m ³ /h	11 bar	DN 150	21.375 €	26
DSS 540 A	7.430 m ³ /h	11 bar	DN 150	22.260 €	26
DSS 650 A	9.050 m ³ /h	11 bar	DN 150	24.600 €	26
DSS 720 A	10.000 m ³ /h	11 bar	DN 150	26.610 €	26
DSS 860 A	11.940 m ³ /h	11 bar	DN 200	35.850 €	26
DSS 940 A	13.020 m ³ /h	11 bar	DN 200	38.850 €	26
DSS 1100 A	15.320 m ³ /h	11 bar	DN 200	42.600 €	26
DSS 1280 A	17.750 m ³ /h	11 bar	DN 200	51.510 €	26
DSS 1470 A	20.420 m ³ /h	11 bar	DN 200	59.625 €	26

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature



Activated carbon oil vapour adsorber for higher volume flows, bigger connection sizes or stainless-steel versions are available on request.



The operation of an activated carbon oil vapour adsorber requires compressed air with a pressure dew-point of at least +3°C.

Volume flow conversion factors for operating conditions deviating from reference conditions

Operating pressure	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
		0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00

For conversion the lowest appearing operating pressure must be considered.

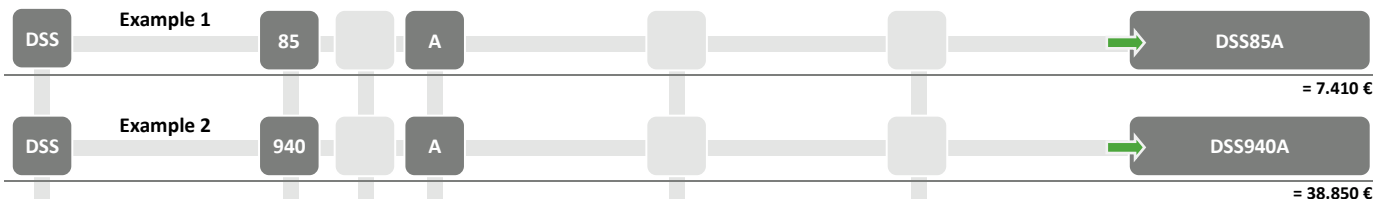
For a comprehensive description of how to use the conversion factor, further conversion factors and latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Oil vapour adsorption

Activated carbon oil vapour adsorber up to 11 bar – DSS..A series

Options, order examples and price calculations




Series	Size	Pressure	Type
--------	------	----------	------

↑

DSS


DSS 85-1470



Size (see table left side)

↑

A Activated carbon pellets



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight
DSS 85 A	2325 mm	410 mm	530 mm	240 kg
DSS 125 A	2705 mm	500 mm	600 mm	350 kg
DSS 155 A	2720 mm	500 mm	600 mm	410 kg
DSS 215 A	2765 mm	600 mm	750 mm	550 kg
DSS 250 A	2885 mm	650 mm	800 mm	570 kg
DSS 300 A	2910 mm	710 mm	850 mm	655 kg
DSS 380 A	2970 mm	800 mm	1000 mm	950 kg
DSS 430 A	3210 mm	850 mm	1100 mm	1050 kg
DSS 500 A	3235 mm	950 mm	1165 mm	1340 kg
DSS 540 A	3250 mm	1000 mm	1200 mm	1410 kg
DSS 650 A	2520 mm	1000 mm	1250 mm	1550 kg
DSS 720 A	3560 mm	1100 mm	1325 mm	1850 kg
DSS 860 A	3585 mm	1200 mm	1400 mm	2100 kg
DSS 940 A	3605 mm	1250 mm	1500 mm	2475 kg
DSS 1100 A	3670 mm	1350 mm	1600 mm	2890 kg
DSS 1280 A	3680 mm	1450 mm	1700 mm	3900 kg
DSS 1470 A	3720 mm	1550 mm	1800 mm	4620 kg

Oil vapour adsorption

Activated carbon oil vapour adsorber up to 350 bar – DSW..A series



Scope of supply

Ready-to-use oil vapour adsorber including initial activated carbon filling ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Activated carbon oil vapour adsorber, suitable for DHW dryer series ; including initial filling ; pressure gauge

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.
DSW 11 /50 A	45 m ³ /h ^{*1}	50 bar	G 1/2	2.457 €	31
DSW 19 /50 A	91 m ³ /h ^{*1}	50 bar	G 1/2	2.517 €	31
DSW 39 /50 A	200 m ³ /h ^{*1}	50 bar	G 1/2	2.670 €	31
DSW 49 /50 A	244 m ³ /h ^{*1}	50 bar	G 1/2	3.096 €	31
DSW 72 /50 A	357 m ³ /h ^{*1}	50 bar	G 1/2	3.661 €	31
DSW 96 /50 A	475 m ³ /h ^{*1}	50 bar	G 1/2	4.256 €	31
DSW 156 /50 A	825 m ³ /h ^{*1}	50 bar	G 3/4 ^{*2}	5.056 €	31
DSW 239 /50 A	1.254 m ³ /h ^{*1}	50 bar	G 3/4 ^{*2}	5.906 €	31
DSW 5 /100 A	72 m ³ /h ^{*1}	100 bar	G 1/2	3.628 €	31
DSW 9 /100 A	87 m ³ /h ^{*1}	100 bar	G 1/2	3.803 €	31
DSW 12 /100 A	153 m ³ /h ^{*1}	100 bar	G 1/2	4.452 €	31
DSW 24 /100 A	283 m ³ /h ^{*1}	100 bar	G 1/2	4.942 €	31
DSW 37 /100 A	429 m ³ /h ^{*1}	100 bar	G 1/2	6.069 €	31
DSW 58 /100 A	750 m ³ /h ^{*1}	100 bar	G 1/2 ^{*2}	7.735 €	31
DSW 5 /250 A	115 m ³ /h ^{*1}	250 bar	G 1/2	4.449 €	31
DSW 9 /250 A	140 m ³ /h ^{*1}	250 bar	G 1/2	4.614 €	31
DSW 12 /250 A	270 m ³ /h ^{*1}	250 bar	G 1/2	5.168 €	31
DSW 24 /250 A	500 m ³ /h ^{*1}	250 bar	G 1/2	6.280 €	31
DSW 37 /250 A	800 m ³ /h ^{*1}	250 bar	G 1/2	7.630 €	31
DSW 58 /250 A	1.400 m ³ /h ^{*1}	250 bar	G 1/2 ^{*2}	8.809 €	31
DSW 5 /350 A	150 m ³ /h ^{*1}	350 bar	G 1/2	4.798 €	31
DSW 9 /350 A	180 m ³ /h ^{*1}	350 bar	G 1/2	5.110 €	31
DSW 12 /350 A	300 m ³ /h ^{*1}	350 bar	G 1/2	5.570 €	31
DSW 24 /350 A	525 m ³ /h ^{*1}	350 bar	G 1/2	6.317 €	31
DSW 37 /350 A	850 m ³ /h ^{*1}	350 bar	G 1/2	7.907 €	31
DSW 58 /350 A	1.560 m ³ /h ^{*1}	350 bar	G 1/2 ^{*2}	10.108 €	31

*1 – bezogen auf 1 bar(a) und 20°C bei maximal zulässigem Betriebsüberdruck und 35°C Eintrittstemperatur

*2 – abweichende Anschlussgrößen abhängig von der Auslegung möglich

i High pressure activated carbon oil vapour adsorber for higher volume flows, higher operating pressures, bigger connection sizes or stainless-steel versions are available on request.

i The operation of an activated carbon oil vapour adsorber requires compressed air with a pressure dew-point of at least +3°C.

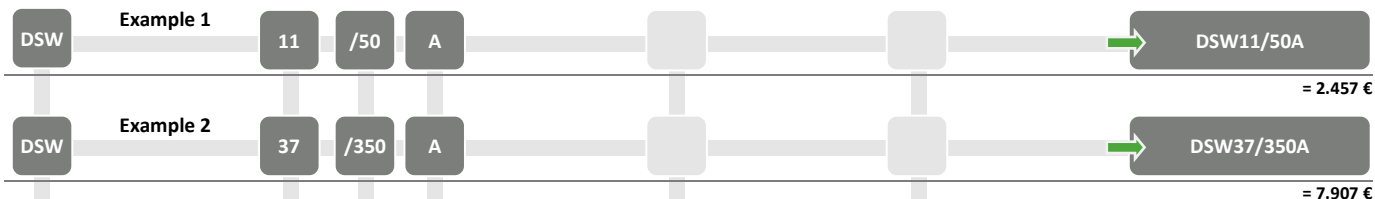
i **Sizing for your individual operating conditions**
Please contact the technical support of FST.

For latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Oil vapour adsorption


Activated carbon oil vapour adsorber up to 350 bar – DSW..A series

Options, order examples and price calculations



Series	Size	Pressure	Type
--------	------	----------	------

DSW




Size (see table left side)

Pressure

- /50
- /100
- /250
- /350

Type

A Activated carbon pellets



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DSW 11 /50	1155 mm	210 mm	400 mm	23 kg	DSW 5 /250	1050 mm	190 mm	400 mm	34 kg
DSW 19 /50	1425 mm	250 mm	400 mm	28 kg	DSW 9 /250	1150 mm	190 mm	400 mm	40 kg
DSW 39 /50	1505 mm	250 mm	400 mm	37 kg	DSW 12 /250	1150 mm	215 mm	400 mm	45 kg
DSW 49 /50	1715 mm	280 mm	400 mm	40 kg	DSW 24 /250	1280 mm	240 mm	400 mm	67 kg
DSW 72 /50	1780 mm	815 mm	400 mm	53 kg	DSW 37 /250	1320 mm	270 mm	400 mm	95 kg
DSW 96 /50	1785 mm	305 mm	400 mm	63 kg	DSW 58 /250	1620 mm	295 mm	400 mm	141 kg
DSW 156 /50	1870 mm	365 mm	400 mm	84 kg					
DSW 239 /50	1870 mm	420 mm	400 mm	137 kg	DSW 5 /350	1050 mm	190 mm	400 mm	35 kg
					DSW 9 /350	1150 mm	190 mm	400 mm	41 kg
DSW 5 /100	1030 mm	190 mm	400 mm	28 kg	DSW 12 /350	1150 mm	215 mm	400 mm	51 kg
DSW 9 /100	1260 mm	190 mm	400 mm	31 kg	DSW 24 /350	1280 mm	240 mm	400 mm	77 kg
DSW 12 /100	1130 mm	215 mm	400 mm	35 kg	DSW 37 /350	1320 mm	270 mm	400 mm	109 kg
DSW 24 /100	1260 mm	240 mm	400 mm	47 kg	DSW 58 /350	1620 mm	295 mm	400 mm	163 kg
DSW 37 /100	1300 mm	270 mm	400 mm	63 kg					
DSW 58 /100	1600 mm	295 mm	400 mm	98 kg					

Breathing air systems

Breathing air systems up to 16 bar – heatless regeneration – DPS..BI.. , DPS..BM.. series



Scope of supply

Ready-to-use breathing air system including initial fillings and selected options (already installed or, in order to avoid transport damages, pre-installed / separately enclosed) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language. Additional pressure vessel documents are provided for welded pressure vessels. These vessel documents are created individually for each of these products and will be sent separately.

Standard version

Breathing air system with C1 electronic control unit ; pre- and after-filter ; option for industrial (BI) or medical (BM) breathing air ; option for pressure dew-point dependent control (H)

	Nominal volume flow ^{*1}	Maximum operating pressure	Connection	Price	Prod.-grp.		Price	Prod.-grp.
DPS 1 BI	8 m ³ /h	16 bar	G 3/8	2.562 €	27	DPS 1 BM	2.784 €	27
DPS 2 BI	15 m ³ /h	16 bar	G 3/8	2.841 €	27	DPS 2 BM	3.088 €	27
DPS 3 BI	25 m ³ /h	16 bar	G 3/8	3.260 €	27	DPS 3 BM	3.544 €	27
DPS 4 BI	35 m ³ /h	16 bar	G 3/8	3.603 €	27	DPS 4 BM	3.916 €	27
DPS 6 BI	57 m ³ /h	16 bar	G 1/2	4.642 €	27	DPS 6 BM	5.046 €	27
DPS 7 BI	72 m ³ /h	16 bar	G 1/2	5.045 €	27	DPS 7 BM	5.484 €	27
DPS 8 BI	82 m ³ /h	16 bar	G 1/2	5.770 €	27	DPS 8 BM	6.271 €	27
DPS 10 BI	110 m ³ /h	16 bar	G 1	9.434 €	28	DPS 10 BM	10.023 €	28
DPS 15 BI	150 m ³ /h	16 bar	G 1	10.084 €	28	DPS 15 BM	10.715 €	28
DPS 20 BI	200 m ³ /h	16 bar	G 1	10.856 €	28	DPS 20 BM	11.535 €	28
DPS 25 BI	260 m ³ /h	16 bar	G 1	11.962 €	28	DPS 25 BM	12.710 €	28
DPS 30 BI	320 m ³ /h	16 bar	G 1 ½	14.561 €	28	DPS 30 BM	15.471 €	28
DPS 40 BI	410 m ³ /h	16 bar	G 1 ½	16.055 €	28	DPS 40 BM	17.058 €	28
DPS 60 BI	590 m ³ /h	16 bar	G 1 ½	18.769 €	28	DPS 60 BM	19.942 €	28
DPS 80 BI	770 m ³ /h	16 bar	G 2	25.805 €	28	DPS 80 BM	24.919 €	28
DPS 100 BI	1.000 m ³ /h	16 bar	G 2	28.754 €	28	DPS 100 BM	28.613 €	28

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, 35°C inlet temperature



Breathing air systems for higher volume flows, higher operating pressures or bigger connection sizes are available on request.

Volume flow conversion factors for operating conditions deviating from reference conditions

Operating pressure	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar
		0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00

Inlet temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C ^{*2}	60°C ^{*2}
		1,00	1,00	1,00	0,97	0,87	0,80	0,64

*2 –DPS10 to DPS100 only

For conversion the lowest appearing operating pressure respectively maximum (highest) temperature must be considered.

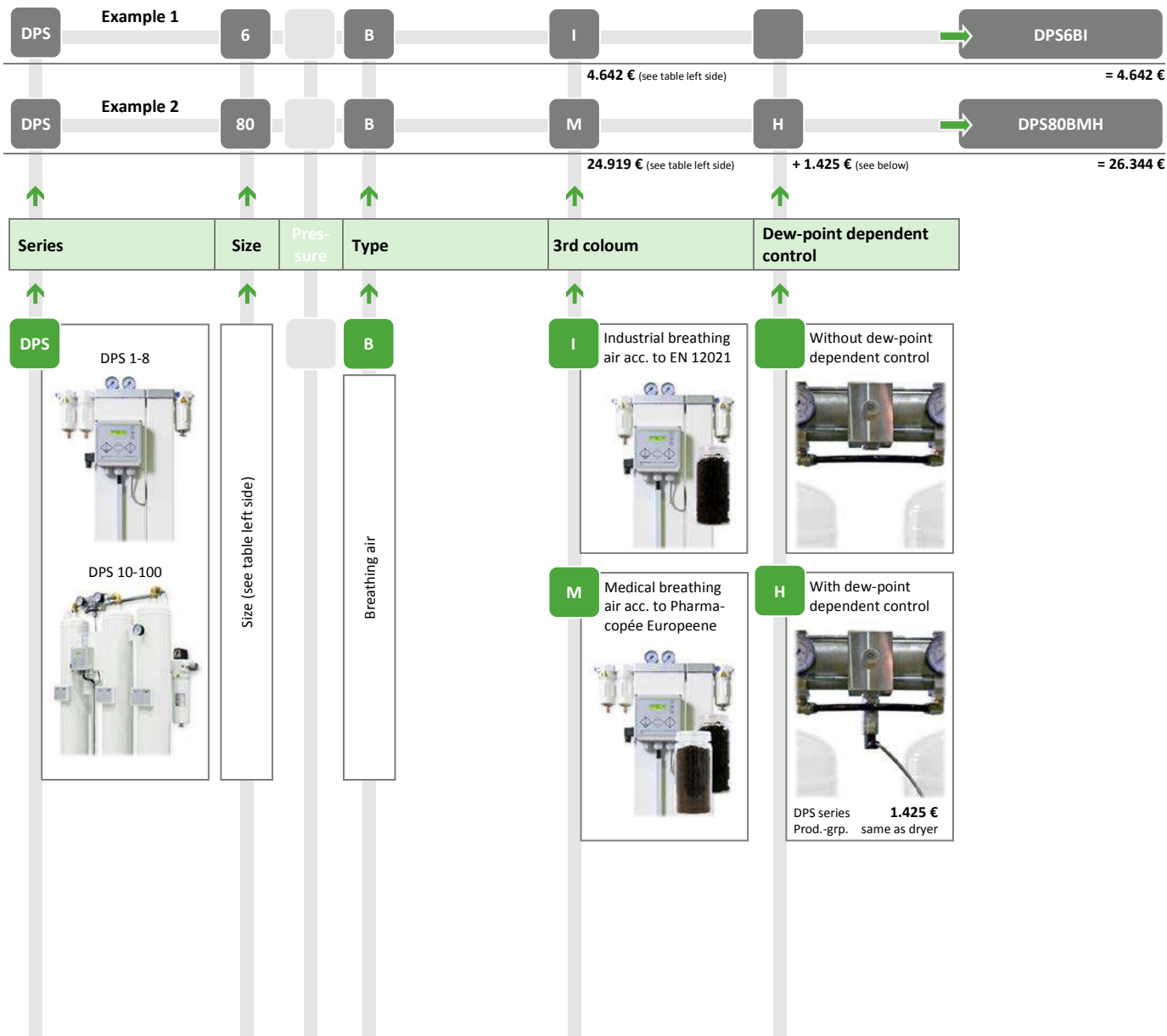
For a comprehensive description of how to use the conversion factor, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Product Data Sheets“

Breathing air systems

Breathing air system up to 16 bar – heatless regeneration – DPS..BI.., DPS..BM.. series

Options, order examples and price calculations



Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight		Height [A]	Width [B]	Depth [C]	Weight
DPS 1 BI	450 mm	412 mm	185 mm	14 kg	DPS 1 BM	450 mm	502 mm	185 mm	15 kg
DPS 2 BI	625 mm	412 mm	185 mm	20 kg	DPS 2 BM	625 mm	502 mm	185 mm	21 kg
DPS 3 BI	875 mm	412 mm	185 mm	27 kg	DPS 3 BM	875 mm	502 mm	185 mm	28 kg
DPS 4 BI	1125 mm	412 mm	185 mm	35 kg	DPS 4 BM	1125 mm	502 mm	185 mm	36 kg
DPS 6 BI	1180 mm	614 mm	220 mm	65 kg	DPS 6 BM	1180 mm	704 mm	220 mm	66 kg
DPS 7 BI	1405 mm	614 mm	220 mm	78 kg	DPS 7 BM	1405 mm	704 mm	220 mm	79 kg
DPS 8 BI	1605 mm	614 mm	220 mm	90 kg	DPS 8 BM	1605 mm	704 mm	220 mm	91 kg
DPS 10 BI	1460 mm	955 mm	515 mm	173 kg	DPS 10 BM	1460 mm	1085 mm	515 mm	178 kg
DPS 15 BI	1700 mm	955 mm	515 mm	195 kg	DPS 15 BM	1700 mm	1085 mm	515 mm	200 kg
DPS 20 BI	1720 mm	955 mm	515 mm	250 kg	DPS 20 BM	1720 mm	1085 mm	515 mm	255 kg
DPS 25 BI	1735 mm	955 mm	515 mm	300 kg	DPS 25 BM	1735 mm	1085 mm	515 mm	305 kg
DPS 30 BI	1830 mm	1130 mm	555 mm	350 kg	DPS 30 BM	1830 mm	1260 mm	555 mm	355 kg
DPS 40 BI	1840 mm	1140 mm	570 mm	395 kg	DPS 40 BM	1840 mm	1270 mm	570 mm	400 kg
DPS 60 BI	1870 mm	1200 mm	600 mm	525 kg	DPS 60 BM	1870 mm	1330 mm	600 mm	532 kg
DPS 80 BI	2045 mm	1470 mm	715 mm	630 kg	DPS 80 BM	2045 mm	1635 mm	715 mm	640 kg
DPS 100 BI	2060 mm	1520 mm	750 mm	740 kg	DPS 100 BM	2060 mm	1685 mm	750 mm	750 kg

Condensate

Condensate drains – CDM.. , CDF.. series



Scope of supply








Condensate drain without installation parts ; without sealing material ; single cardboard packing or shrink wrap foil ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals of the condensate drains CDF130 and CDF140 are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Adapters and manual drains without documentation.


Up to 16 bar

	Adapter		Manual drain			Automatic drain	
							
	CAK-B15-14,5	CAK-B15-M14	CDM 14 N	CDM 15 N	CDM 25 N	CDF 130 NO	CDF 140 NC
Suitable for filter	FCA 20-130	FCA 20-130	FCA 20-130 (*1)	FCA 140-FWS 190	FWS 200-2000	FCA 20-130 (*2)	FCA 140-FWS 2000
Connection	G 1/2 - Ø14,5	G 1/2 - M14	M14	G 1/2	G 1	Ø14,5 (M14)	G 1/2
Price	16 €	16 €	25 €	35 €	50 €	69 €	135 €
Prod.-grp.	51	51	51	51	51	51	51


*1 - adapter CAK-B15-M14 required

*2 - adapter CAK-B15-14,5 required

Up to 50 bar

	Manual drain
	
	CDM 15/50 N
Suitable for filter	FCA 20-130, FWS 140-190
Connection	G 1/2
Price	65 €
Prod.-grp.	52

Up to 350 bar

	Manual drain
	
	CDM 08/350 N
Suitable for filter	FMA 30-70, FMS 90-110
Connection	G 1/4
Price	135 €
Prod.-grp.	52

Service

SK-CDF140NC

Service kit

see Service Price list

For latest technical figures and information of CDF130 and CDF140 condensate drains please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Condensate

Condensate drain for vacuum – CDMV.. series



Scope of supply

Manual vacuum condensate drain ; without sealing material ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.
Without documentation.

Standard version

Vacuum-resistant, sterilisable flask including manual valve and mounting material

Down to 0,02 bar(a) vacuum

Vacuum condensate drain



	CDMV 70	CDMV 90
Suitable for filter	FCA 20-70	FCA 90-190
Pressure range	0,02 bar(a) - 2 bar(a)	0,02 bar(a) - 2 bar(a)
Collecting volume	100 ml	250 ml
Connection	G 1/2	G 1/2
Price	85 €	89 €
Prod.-grp.	51	51

Condensate

Electronic condensate drain up to 16 bar – CDE..L series



Scope of supply

Ready-to-use electronic condensate drain ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Condensate drain ; power supply cable including plug (approx. 2m cable length with Schuko plug) ; metal outlet nipple ; CDE8LC - CDE500LC with potential free alarm contact (cable available as option)

		Nominal volume flow after-cooler ^{*1}	Nominal volume flow refrigeration dryer ^{*1,2}	Nominal volume flow filter ^{*1,3}	Maximum operating pressure	Connection condensate inlet	Connection condensate outlet	Price	Prod.-grp.
CDE 4 L		250 m ³ /h	500 m ³ /h	2.500 m ³ /h	16 bar	G 1/2	G 3/8 - 10-12mm	140 €	53
CDE 8 LC		500 m ³ /h	1.000 m ³ /h	5.000 m ³ /h	16 bar	2x G 1/2	G 3/8 - 10-12mm	260 €	53
CDE 16 LC		1.000 m ³ /h	2.000 m ³ /h	10.000 m ³ /h	16 bar	2x G 1/2	G 3/8 - 10-12mm	300 €	53
CDE 40 LC		2.500 m ³ /h	5.000 m ³ /h	25.000 m ³ /h	16 bar	2x G 1/2	G 3/8 - 10-12mm	390 €	53
CDE 160 LC		9.500 m ³ /h	19.000 m ³ /h	95.000 m ³ /h	16 bar	2x G 1/2	G 3/8 - 10-12mm	590 €	53
CDE 500 LC		30.000 m ³ /h	60.000 m ³ /h	300.000 m ³ /h	16 bar	G 1 + 2x G 1/2	G 3/8 - 10-12mm	1.290 €	53

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure ; suction air compressor 25°C at 60% relative humidity ; outlet temperature after-cooler 35°C

*2 - pressure dew-point refrigeration dryer +3°C

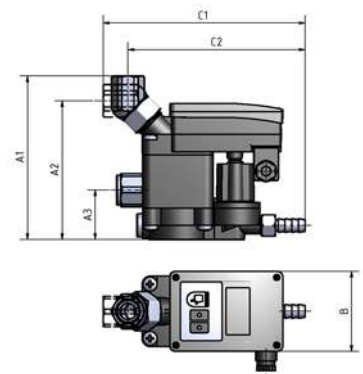
*3 - condensate generated from coolers or dryers already discharged upstream ; discharge of residual amounts of liquids only

Service

SK-CDE4-500	Service kit	
SP-CDE4-500/ECA2	Power supply cable, 2m cable length, solenoid/German Schuko plug	see Service Price list
SP-ECA3-ECN15	Cable potential free alarm contact, 5m cable length, M12 plug/wire end ferrules	
SR-CDE/ED3000	Metal outlet nipple with hex nut and O-ring	

Sizes and weights

	Height [A1]	Height [A2]	Height [A3]	Width [B]	Depth [C1]	Depth [C2]	Weight
CDE 4 L	120 mm	---	---	60 mm	143 mm	124 mm	0,4 kg
CDE 8 LC	140 mm	118 mm	42 mm	69 mm	172 mm	151 mm	0,6 kg
CDE 16 LC	155 mm	133 mm	42 mm	69 mm	172 mm	151 mm	0,7 kg
CDE 40 LC	215 mm	193 mm	42 mm	69 mm	172 mm	151 mm	1,2 kg
CDE 160 LC	230 mm	209 mm	66 mm	121 mm	184 mm	162 mm	2,8 kg
CDE 500 LC	281 mm	225 mm	75 mm	230 mm	492 mm	---	18 kg



For conversion factors, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Condensate

Electronic condensate drain up to 350 bar – CDE..T series



Scope of supply

Ready-to-use electronic condensate drain ; single cardboard packing ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals including the manufacturer's declaration and/or declaration of conformity are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Condensate drain, made up of pressure resistant solenoid valve and electronic timer ; power supply plug ; double-nipple inlet connection

	Nominal volume flow after-cooler ^{*1}	Nominal volume flow refrigeration dryer ^{*1,*2}	Nominal volume flow filter ^{*1,*3}	Maximum operating pressure	Connection condensate inlet	Connection condensate outlet	Price	Prod.-grp.
CDE 40 T	2.500 m ³ /h	5.000 m ³ /h	25.000 m ³ /h	16 bar	G 1/2	G 1/2	125 €	53
CDE 500 T	30.0000 m ³ /h	60.000 m ³ /h	300.000 m ³ /h	16 bar	G 1	G 1/2	175 €	53
CDE 200 /50 T	12.000 m ³ /h	24.000 m ³ /h	120.000 m ³ /h	50 bar	G 1/2	G 1/4	195 €	54
CDE 80 /100 T	4.800 m ³ /h	9.600 m ³ /h	48.000 m ³ /h	100 bar	G 1/4	G 1/4	375 €	54
CDE 80 /350 T	4.800 m ³ /h	9.600 m ³ /h	48.000 m ³ /h	350 bar	G 1/4	G 1/4	795 €	54

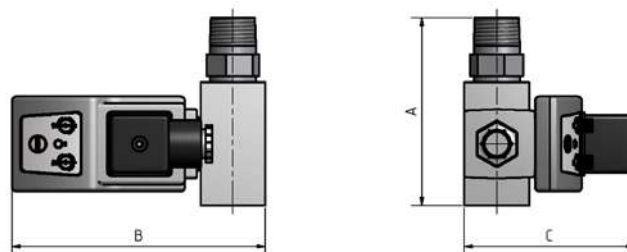
*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure ; suction air compressor 25°C at 60% relative humidity ; outlet temperature after-cooler 35°C

*2 - pressure dew-point refrigeration dryer +3°C

*3 - condensate generated from coolers or dryers already discharged upstream ; discharge of residual amounts of liquids only

Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight
CDE 40 T	75 mm	118 mm	86 mm	0,6 kg
CDE 500 T	86 mm	118 mm	86 mm	0,7 kg
CDE 200 /50 T	65 mm	118 mm	86 mm	0,4 kg
CDE 80 /100 T	58 mm	112 mm	81 mm	0,4 kg
CDE 80 /350 T	58 mm	112 mm	81 mm	0,5 kg



For conversion factors, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Condensate Condensate drains installation kit – CAK series



Scope of supply

Mounting kit including shut-off valve and installation parts ; without sealing material ; single cardboard packing or shrink wrap ; transport packing is not included in the scope of supply and is charged separately. Without documentation.

Standard version

Each mounting kit includes all components in order to connect the according condensate drain to the according filter housing, offering a manual shut off valve in between.

Up to 16 bar (for condensate drains with integrated screwed inlet connection)

	Connection filter	Suitable for filters	Connection condensate drains	Suitable for condensate drains	Price	Prod.-grp.
CAKF-B15-B15	G 1/2	FCA 20-190, FWS 140-190, FCA-CKL	G 1/2	CDE4L - CDE40LC, CDE160 ^{*1}	35 €	51
CAKF-B25-B15	G 1	FWS 200-2000	G 1/2	CDE4L - CDE40LC, CDE160 ^{*1}	50 €	51

*1 - condensate drain for floor mounting ; flexible hose and hose fitting additionally required

Up to 16 bar (for condensate drains without integrated screwed inlet connection)

	Connection filter	Suitable for filters	Connection condensate drains	Suitable for condensate drains	Price	Prod.-grp.
CAKR-B15-B15	G 1/2	FCA 20-190, FWS 140-190, FCA-CKL	G 1/2	CDF140, CDE40T - CDE500T	35 €	51
CAKR-B25-B15	G 1	FWS 200-2000	G 1/2	CDF140, CDE40T - CDE500T	45 €	51
CAKR-B25-B25	G 1	FWS 200-2000	G 1	CDE500LC ^{*2}	80 €	51
CAKR-B50-B25	G 2	---	G 1	CDE500LC ^{*2}	80 €	51

*2 - condensate drain for floor mounting ; flexible hose and hose fitting additionally required

Up to 50 bar

	Connection filter	Suitable for filters	Connection condensate drains	Suitable for condensate drains	Price	Prod.-grp.
CAKF/50-B15-B15	G 1/2	FCA 20-130, FWS 140-190	G 1/2	CDE200/50T	85 €	52

Up to 350 bar

	Connection filter	Suitable for filters	Connection condensate drains	Suitable for condensate drains	Price	Prod.-grp.
CAKF/350-B08-B08	G 1/4	FMA 30-70, FMS 90-110	G 1/4	CDE80/100T, CDE80/350T	145 €	52

Condensate

Oil water separator – CSW.. series



Scope of supply

Oil water separator with already installed filter bags ; without water filling (non water flooded) ; transport packing is not included in the scope of supply and is charged separately.

The manufacturers operating manual is included.

Operating manuals are available in English and German language.

Standard version

Oil water separator with documentation compartment ; test valve ; test set ; approval of the Deutsches Institut für Bautechnik Berlin, Germany, (DiBt)

	Nominal volume flow ^{*1}	Nominal volume flow ^{*2}	Connection inlet	Connection water outlet	Connection oil outlet	Price	Prod.-grp.
CSW-DRUKOSEP 1	108 m ³ /h	48 m ³ /h	3x R 1/2	R 1	---	285 €	55
CSW-DRUKOSEP 2	150 m ³ /h	72 m ³ /h	3x R 1/2	R 1	---	360 €	55
CSW-DRUKOSEP 3	210 m ³ /h	108 m ³ /h	3x R 1/2	R 1	---	450 €	55
CSW-DRUKOSEP 6	360 m ³ /h	180 m ³ /h	4x R 1/2	R 1	---	600 €	55
CSW-DRUKOSEP 8	600 m ³ /h	300 m ³ /h	4x R 1/2	R 1	---	790 €	55
CSW-DRUKOSEP 10	720 m ³ /h	360 m ³ /h	4x R 1/2	R 1	---	880 €	55
CSW-DRUKOMAT 15	900 m ³ /h	300 m ³ /h	4x R 1/2	R 1	R 1	1.020 €	55
CSW-DRUKOMAT 30	1.800 m ³ /h	600 m ³ /h	4x R 1/2	R 1	R 1	1.490 €	55
CSW-DRUKOMAT 61	4.200 m ³ /h	1.200 m ³ /h	4x R 1/2	R 2	R 2	4.600 €	55
CSW-DRUKOMAT 15 PLUS	1.500 m ³ /h	720 m ³ /h	4x R 1/2	R 1	R 1	1.750 €	55
CSW-DRUKOMAT 30 PLUS	3.000 m ³ /h	1.500 m ³ /h	4x R 1/2	R 1	R 1	2.350 €	55
CSW-DRUKOMAT 31 PLUS	3.600 m ³ /h	1.800 m ³ /h	4x R 1/2	R 1	R 1	3.200 €	55
CSW-DRUKOMAT 61 PLUS	6.000 m ³ /h	3.000 m ³ /h	4x R 1/2	R 2	R 2	5.900 €	55

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, compressed air produced by screw compressors, intake air of compressor 25°C at 60% relative humidity, 35°C compressed air temperature, for non-emulsifying oils ; for different intake air conditions or lower compressed air temperatures conversion factors need to be applied.

*2 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, compressed air produced by piston compressors, intake air of compressor 25°C at 60% relative humidity, 35°C compressed air temperature, for non-emulsifying oils ; for different intake air conditions or lower compressed air temperatures conversion factors need to be applied.

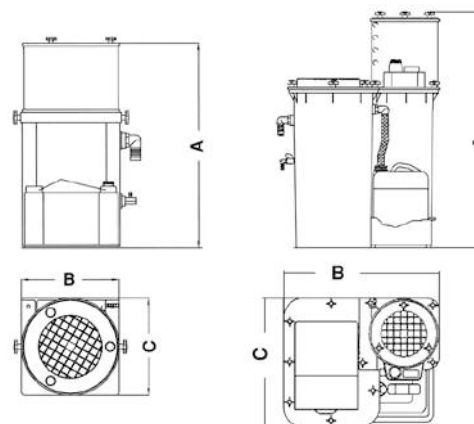
Service

SEWAPAC® service kits for oil water separator CSW series and oil water separators of other suppliers

see Service Price list

Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight (unfilled)
CSW-DRUKOSEP 1	450 mm	280 mm	210 mm	5 kg
CSW-DRUKOSEP 2	550 mm	280 mm	210 mm	7 kg
CSW-DRUKOSEP 3	610 mm	285 mm	285 mm	10 kg
CSW-DRUKOSEP 6	908 mm	437 mm	325 mm	17 kg
CSW-DRUKOSEP 8	962 mm	595 mm	375 mm	25 kg
CSW-DRUKOSEP 10	965 mm	620 mm	520 mm	35 kg
CSW-DRUKOMAT 15	1160 mm	620 mm	520 mm	28 kg
CSW-DRUKOMAT 30	1160 mm	850 mm	520 mm	55 kg
CSW-DRUKOMAT 61	1450 mm	1300 mm	1000 mm	90 kg
CSW-DRUKOMAT 15 PLUS	1160 mm	620 mm	520 mm	40 kg
CSW-DRUKOMAT 30 PLUS	1160 mm	850 mm	520 mm	60 kg
CSW-DRUKOMAT 31 PLUS	1160 mm	850 mm	520 mm	70 kg
CSW-DRUKOMAT 61 PLUS	1450 mm	1300 mm	1000 mm	96 kg



Volume flow conversion factors for compressed air temperatures deviating from reference conditions

35°C	25°C	15°C	3°C (refrigerant dryer)
1,00	0,83	0,72	0,67

For further conversion factors, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“

Condensate

Oil water separator – CSD.. series



Scope of supply

Oil water separator with already installed filter bags (sealed) ; without water filling (non water flooded) ; transport packing is not included in the scope of supply and is charged separately.

Operating manuals are available in electronic format on our web site:

→ www.fstweb.de → „Download“ → „Operating Manuals“

Operating manuals are available in English and German language.

Standard version

Oil water separator with test valve and test set ;

approval of the Deutsches Institut für Bautechnik Berlin, Germany, (DiBt)

	Nominal volume flow ^{*1}	Connection inlet	Connection water outlet	Connection oil outlet	Price	Prod.-grp.
CSD 3	150 m ³ /h	1/2	G 1/2	---	295 €	56
CSD 5	300 m ³ /h	G 1 + 3x G 1/2	G 1	---	490 €	56
CSD 10	600 m ³ /h	G 1 + 3x G 1/2	G 1	---	760 €	56
CSD 20	1.200 m ³ /h	G 1 + 3x G 1/2	G 1	---	1.140 €	56
CSD 40	2.400 m ³ /h	G 1 + 3x G 1/2	G 1	---	1.690 €	56
CSD 80	4.800 m ³ /h	G 1	2x G 1	---	3.450 €	56
CSD 160	9.600 m ³ /h	G 1	4x G 1	---	6.900 €	56

*1 – refers to 1 bar(a) and 20°C at 7 bar operating pressure, intake air of compressor 25°C at 60% relative humidity, 35°C compressed air temperature, for non-emulsifying mineral oils ; for different intake air conditions, operating pressures or lower compressed air temperatures conversion factors need to be applied.

Service

SEWAPAC® service kits for oil water separator CSD series and oil water separators of other suppliers

see Service Price list

Sizes and weights

	Height [A]	Width [B]	Depth [C]	Weight (unfilled)
CSD 3	555 mm	345 mm	320 mm	9 kg
CSD 5	655 mm	445 mm	430 mm	20 kg
CSD 10	735 mm	495 mm	460 mm	24 kg
CSD 20	840 mm	680 mm	510 mm	35 kg
CSD 40	985 mm	790 mm	660 mm	67 kg
CSD 80	985 mm	1780 mm	660 mm	136 kg
CSD 160	985 mm	3760 mm	660 mm	272 kg

Volume flow conversion factors for compressed air temperatures deviating from reference conditions

35°C	25°C	15°C	3°C (refrigerant dryer)
1,00	0,83	0,72	0,67

For further conversion factors, latest technical figures and information please refer to the relevant product data sheets, which are available in electronic format on our web site: → www.fstweb.de → „Download“ → „Product Data Sheets“



General Terms of Sale and Delivery

- § 1**
All deliveries, services and offers shall be deemed to be made solely upon the basis of these conditions. These conditions shall be deemed to have been acknowledged with placing an order at the latest. Any counterclaims on the part of the purchaser and references to his own terms of business or purchasing are herewith deemed ineffective. All divergences from these conditions shall require our own written confirmation to obtain validity.
- § 2**
All offers shall be deemed to remain unbinding and shall be deemed binding for a maximum of eight weeks calculated from the date of offer only when expressly so endorsed. Our prices are subject to alteration and are valid only until revoked. Based on the development of the steel prices we must reserve the right to change prices at short notice. As a general principle, a contract shall come into existence only by our order confirmation, unless stated otherwise in the General Terms of Sale and Delivery. The price stated in our confirmation of order shall apply in all cases.
- § 3**
All payments shall be made to us in EURO within 30 days without deduction referred to the invoice date.
The precondition for granting discount is the full and complete payment of all invoices which have previously become due for payment and whose amount or basis has not been contested. The due date shall remain unaffected by the receipt of acceptance documents of any type.
- § 4**
Our representatives are not empowered to make contracts nor to collect amounts outstanding.
- § 5**
Should the purchaser fall into arrears with any payment, we shall be entitled upon corresponding notification to the purchaser to cease work on all contracts already in progress until advance payment is made in full or until appropriate security is provided. Where such advance payment or provision of security is not effected within a reasonable period specified by ourselves, we shall have the right, without prejudice to our right to claim any further damages to which we may be entitled, to cancel all contracts currently in progress and to charge all costs already incurred therefore to the purchaser, whereby such costs shall be specified in detail.
- § 6**
The purchaser shall be deemed to have no right of retention from any other contractual relationship. The same provision shall be deemed to apply to rights of refusal of performance on the part of the purchaser, such rights arising from the same contractual relationship in accordance with §§ 273,320 BGB (German Civil Code) and §§ 369 HGB (German Commercial Code). Where it shall become apparent that such exclusion would disadvantage the purchaser disproportionately, in contravention of the obligations of fair and equitable trading and that such exclusion is therefore invalid, we shall be entitled to remedy any such refusal of performance on the part of the purchaser by means of a written bank guarantee to the value of the right to be secured. Setting off of claims by the purchaser shall be deemed permissible only provided the corresponding counterclaim is not contested by ourselves or has been judicially established.
- § 7**
Delivery dates shall be binding only if explicitly stated as such. An order shall only be deemed accepted when all technical and commercial questions have been clarified and, where necessary, technical drawings / documentations have been approved by the purchaser. This time shall in particular be authoritative for the calculation of any delivery period. We shall have the right to make partial deliveries.
- § 8**
We deliver in accordance with Incoterm EXW, excluding packing. Other individually agreed delivery conditions are affected by Incoterm rules as well. Where deliveries are made ex works / carriage forward, the costs of transport as well as the insurance risk shall be borne by the consignee. The risk shall thereby pass to the purchaser when the goods leave our works or the works of our supplier. Any evident transport damage must be recorded on the freight document upon arrival and also notified to us without delay. In the case of hidden transport damage, the period of notification for such damage shall be one year from delivery.
- § 9**
We guarantee that our products are free from manufacturing and material defects. The period of warranty is 12 months and shall be deemed to commence on the date of delivery; in the case of defects as referred to in § 13 BGB (German Civil Code), the period of warranty shall be 2 years. Any evident defects must be notified to us by the purchaser in writing without delay, and in all cases not later than within one week from receipt of the item of delivery. Any defects which could not be discovered within this period even on careful examination must be notified to us in writing immediately upon discovery, though at the latest within one year. In the case of justified complaints, we hereby undertake to effect repair or to provide replacement free of charge. Where such attempt at repair or replacement proves abortive, the purchaser shall have the right, at his option, to claim a reduction in the price for the goods or services or to cancel the contract.
Any changes to the design or form of the goods which either increase or do not affect their value shall not give the purchaser the right to refuse acceptance of such goods provided the changes do not impair the suitability of the goods for their intended use (onward sale, commercial or industrial use, etc.). All data and statements of dimensions, colour, weight, etc., shall be subject to the tolerances common in trade.
- § 10**
In the case of any breach of obligations by ourselves or our vicarious agents, we shall only be liable if such breach was caused by intent or gross negligence, in the case of a breach of obligations caused by ordinary negligence only, our liability shall be limited only to the foreseeable damage typical for a contract of the type in question. The foregoing limitations of liability shall not apply in the case of injury to life and limb or to health. Should it emerge that these limitations of liability would put the purchaser to an unreasonable disadvantage in contradiction to our obligations to fair and equitable trading, we shall pay compensation, though not for loss of production or loss of profit on the part of the purchaser or his customer, nor for any damage or loss which we could not have foreseen at the time of concluding the contract as a possible consequence of our breach of obligations (foreseeable loss or damage). Moreover, our duty to compensate shall be limited to the amount of the payment agreed with us (excluding incidental costs and value added tax). Where damage or loss from delay is due to gross negligence on the part of our senior managerial staff, we shall likewise only be liable for the foreseeable loss or damage.
- § 11**
The following securities are hereby granted to us until fulfilment of all (balance) claims arising for us from any or all legal reasons against the purchaser and his group companies at the time of order or at any future time, we shall at our option release such amount of the securities as exceeds the value of the claim by more than 10%. The goods remain our property. Any processing or working or other conversion or modification of such goods shall at all times be deemed to be performed on our behalf but without any obligation arising for us. The purchaser's remainder right shall be extended to the new good, resulting from such processing or change. Where a condition of combination or mixture in the sense of §§ 946 - 948 BGB (German Civil Code) exists, the purchaser undertakes to grant to us (co-)ownership rights where the main good resulting is his property. The purchaser shall be deemed to grant us such rights of (co-)ownership free of charge.

General Terms of Sale and Delivery

§ 11 continuation

The purchaser shall be entitled to dispose of or further process or work the reserved goods of which we possess (co-)ownership. Mortgaging or pledging in security of the reserved goods or of the inchoate rights thereto shall be deemed impermissible. The purchaser hereby assigns to us by way of security a first-priority claim to the amount of our invoice of any claims on the part of the purchaser against third parties arising from onward disposal or for any other legal reason in connection with the reserved goods. FST hereby accepts such assignment. Where claims on the part of the purchaser arising from the sale to a third party of the goods or further processing of the goods become part of a current account, the purchaser hereby assigns to us his claims on the current account against his customer to an amount equal to the amount which we invoice to the purchaser for the reserved goods sold or processed. The purchaser is hereby authorized until further notice to collect in his own name but on our amount the claims assigned to us. The purchaser undertakes to disclose at our request such assignment and to provide to us the necessary information and documentation. In case of seizure by third parties of the reserved goods, the purchaser shall without delay draw attention to our ownership rights to such goods and shall notify us immediately. All costs and loss or damage involved therewith shall be borne by the purchaser. Where the purchaser shall infringe the contract, in particular in cases of delay in payment, the purchaser shall be obliged to return the reserved goods to us at our request and at his own expense, or, if appropriate, to assign to us the right of reclaim of the goods with respect to any third party involved. Return will be effected at the amount received by us. Where the Hire Purchase Act does not apply, return of the goods or seizure of the goods by ourselves shall not be deemed to constitute withdrawal from the contract.

§ 12

Our prices shall be understood ex works, excluding packing, carriage, customs' duties, insurance, subsidiary dues and legally payable Sales or Value Added Tax, if not otherwise agreed. In case, where no costs for packaging are shown in our Pricelist, we will invoice 2.5% of the net value of the goods. If the order value is under 100 € net, an administrative surcharge of 20 € is applied and conditions are ex works, excluding packing. Packing cannot be returned.

§ 13

The purchaser asserts that he has knowledge of all national and international regulations prohibiting export of certain goods. The purchaser further asserts that he will not violate such regulations when exporting the goods supplied by FST.

§ 14

The purchaser shall be entitled to withdraw from the contract only with our expressed agreement. In case of withdrawal by the purchaser from the contract, we shall be entitled to require payment from the purchaser of all costs incurred in connection with the execution of the contract up to the time of the purchaser's withdrawal from the contract including out loss of profits resulting from the purchaser's withdrawal from the contract. In case of return of goods, a charge will be made to the purchaser of 15 % of the net value of the goods. This provision shall not apply where a legally justifiable reason for withdrawal from the contract applies.

§ 15

Where individual provisions of these conditions shall be deemed or shall become invalid, the remaining provisions shall nonetheless be deemed unaffected by such occurrence.

§ 16

The place of performance for all claims and obligations shall be deemed to be Siegen / Germany, including legal venue for matters involving documents and certification, bills of exchange and cheques.

§ 17


The law of the Federal Republic of Germany shall apply to all contracts arising on the basis of these General Conditions of Sale and Supply. International commercial law shall not apply.

FST GmbH

Sales office: Im Teelbruch 106 – 45219 Essen – Germany

Head office: Weiherdamm 17 – 57250 Netphen-Deuz – Germany

 +49 (0)2054 / 8735-0

 +49 (0)2054 / 8735-100

 info@fstweb.de

 www.fstweb.de

Distributor