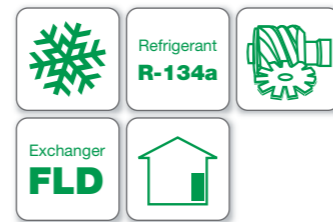


PFS C

WATER COOLED CHILLER WITH SCREW COMPRESSORS



Cooling capacity: 369 kW ÷ 1215 kW



GENERAL CHARACTERISTICS

- Stepless capacity control
- Frame 4200 single screw compressor; star - delta standard start
- Shell and tube flooded heat exchangers; high efficiency copper tubes; victaulic water connections
- R134a refrigerant
- Microtech III controller compatible with BMS

VERSIONS

- XE High efficiency** **EER up to 6,17**
ESEER up to 7,43
- SOUND LEVELS**
Standard sound **78,0 ÷ 83,5 dB(A)**

STANDARD OPTIONS

- Wye delta starter (Y-Δ)
- Double set point
- Phase monitor
- Evaporator victaulic kit
- Evaporator water side design pressure 10bar
- 20 mm evaporator insulation
- Condenser victaulic kit
- Condenser Water side design pressure 10bar
- Condenser 2 passes (Δ t 4-8°C)
- Electronic expansion device
- Discharge line shut off valve
- Hour run meter
- General fault contactor
- Set point reset, demand limit and alarm for external device
- Main switch interlock
- Emergency stop
- Evaporator 2 passes

OPTIONS ON REQUEST

- Soft starter
- Heat pump version / Brine version
- Compressor thermal relays
- Under / overvoltage control
- Energy meter
- Capacitors cosφ 0.9
- Current limit - display
- Evaporator / Condenser marine water box
- Condenser / Evaporator double flanges kit
- 20 mm condenser insulation
- Cu-Ni 90-10 condenser tubes
- Condenser 1 pass (Δ t 4-8 °C) / Condenser 3 passes
- Evaporator / condenser flow switch
- Suction line shut off valve
- High / low pressure side manometers
- Rubber anti vibration mount
- Sound proof system
- Double pressure relief valve with diverter
- Automatic circuit breakers
- Ground fault relay
- Evaporator 1 pass / 3 passes
- High Temperature kit

PFS C

WATER COOLED CHILLER WITH SCREW COMPRESSORS

TECHNICAL DATA PFS C XE ST - cooling only

PFS C XE ST		108.1	130.1	151.1	175.1	215.2	238.2	260.2	280.2	302.2	325.2	350.2
Cooling Capacity ¹	kW	369	445	521	608	748	827	932	978	1050	1133	1215
Unit power input ¹	kW	62,8	75,4	87	101	125	138	151	163	174	188	201
EER	--	5,88	5,90	5,99	6,02	5,98	5,99	6,17	6,00	6,03	6,03	6,04
ESEER	--	6,44	6,47	6,56	6,57	7,16	7,23	7,32	7,37	7,40	7,43	7,42
Sound Pressure ²	dB(A)	78,0	79,0	80,0	80,0	81,0	81,5	82,0	82,5	83,0	83,5	83,5
Compressor	Type	Semi-hermetic single screw compressor										
Quantity	No.	1	1	1	1	2	2	2	2	2	2	2
Minimum capacity	%	25	25	25	25	12,5	12,5	12,5	12,5	12,5	12,5	12,5
Refrigerant	Type	R-134a										
N. of circuits	No.	1	1	1	1	1	1	1	1	1	1	1
Evaporator	Type	Flooded Shell & Tube										
Quantity	No.	1	1	1	1	1	1	1	1	1	1	1
Water volume	l	78	107	134	160	172	201	261	272	295	310	327
Nominal Water pressure drop	kPa	48	40	38	42	48	40	38	35	35	37	40
Water connections size	mm	6	6	8	8	8	8	8	8	8	8	8
Condenser	Type	Flooded Shell & Tube										
Quantity	No.	1	1	1	1	1	1	1	1	1	1	1
Water volume	l	83	111	133	222	233	259	259	283	348	358	376
Nominal Water pressure drop	kPa	35	30	32	28	34	30	37	35	33	33	35
Water connections size	mm	6	6	6	8	8	8	8	8	8	8	8
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz										

NOTE:

(1) 12/7°C entering/leaving evaporator water temperature; 30/35°C entering/leaving condenser water temperature

Weight and dimensions		108.1	130.1	151.1	175.1	215.2	238.2	260.2	280.2	302.2	325.2	350.2
Shipping weight	kg	3089	3370	3603	3781	5289	5375	5654	5707	6066	6105	6156
Operating weight	kg	3250	3588	3870	4163	5694	5835	6174	6262	6709	6773	6859
(A) Length	mm	3341	3341	3419	3417	3609	3609	3609	3609	3509	3509	3509
(B) Width	mm	1353	1353	1353	1384	1689	1689	1711	1711	1711	1711	1711
(C) Height	mm	2121	2121	2121	2048	2048	2048	2048	2048	2161	2161	2161

