

اطلاعات فنی | TECHNICAL DATA

CFT	MODEL	CFT.55	CFT.61	CFT.70	CFT.75	CFT.90	CFT.100	CFT.130
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	55	61	67	72	88	110	135
C.O.P.	kW/kW	3.18	3.72	3.47	3.21	3.49	3.78	3.79
E.E.R.	kW/kW	2.91	3.23	2.89	2.74	3.03	3.34	3.42
Inlet water fluid temperature	°C	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water
Minimum ambient temperature	°C	3	3	3	3	3	3	3
Design ambient temperature	°C	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54
COMPRESSOR DATA								
Number of compressors	N*	1	2	2	2	2	2	2
Number of circuits	N*	1	1	1	1	1	1	1
Total compressors nominal absorbed power	kW	17.3	16.4	19.3	22.4	25.2	29.1	35.8
Total compressors running current RLA	A	30.12	28.52	33.85	39	43.87	50.67	61.91
Steps	N*	1	2	2	2	2	2	2
EVAPORATOR DATA								
Type of evaporator	Type	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST
Nominal flow rate	m ³ /h	9.43	10.46	11.49	12.35	15.09	18.86	23.15
Minimum flow rate	m ³ /h	6	8	8	8	8	10	15
Maximum flow rate	m ³ /h	12	17	17	17	17	24	28
Pressure drops (evaporator+valves+pipng)	kPa	53.91	65.5	46.71	52.94	51.13	47.71	59.04
Hydraulic connections	BSP/DN	1 1/2"	2"	2"	2"	2"	2"	DN65
PROCESS PUMP DATA								
Pump P3 (optional)								
Maximum pump absorbed power	kW	2.2	2.53	2.53	2.53	2.53	2.53	2.53
Maximum pump absorbed current	A	4.24	4.56	4.56	4.56	4.56	4.56	4.56
Available pressure with single pump (WP option)	kPa	216.58	176.89	195.68	189.45	189.39	182.64	212.23
Available pressure with double pump (DP option)	kPa	198.54	163.99	180.51	172	186.59	178.55	205.56
Pump P5 (optional)								
Maximum pump absorbed power	kW	2.94	6.12	6.12	6.12	6.12	6.12	6.12
Maximum pump absorbed current	A	5.83	10.4	10.4	10.4	10.4	10.4	10.5
Available pressure with single pump (PH option)	kPa	514.01	405.62	422.78	415	410.34	400.19	364.21
Available pressure with double pump (DPH option)	kPa	485.98	392.71	407.61	397.55	407.54	396.10	357.54
TANK DATA (optional)								
Volume (optional)	dm ³	200	390	390	390	390	330	500
Expansion vessel volume (XV option)	dm ³	12	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA								
Number of condenser coils	N*	1	1	1	1	1	1	1
Number of fans	N*	2	2	2	2	2	2	2
Total absorbed power	kW	1.62	2.5	3.88	3.88	3.88	3.88	3.88
Total absorbed current	A	3.08	4.96	7.8	7.8	7.8	7.8	7.8
Total air flow	m ³ /h	15600	25000	36000	36000	34000	32000	40000
TOTAL ELECTRIC DATA (standard configuration)								
Nominal absorbed power	kW	18.92	18.9	23.18	26.28	29.08	32.98	39.48
Maximum absorbed current (FLA)	A	39.52	43.4	51.52	56.8	67.8	80.68	97.02
Maximum peak current (LRA)	A	225	142.18	167.02	172.3	211.8	269.24	324.41
Maximum peak current with soft-start (LRA) (SF option)	A	180	118.58	139.02	144.3	177	224.24	270.01
NOISE DATA								
Sound pressure level at 10m according ISO3744	dBA	58.8	57.3	59.2	59.3	59.5	61	62.08
Sound pressure level at 10m according ISO3744 (low noise version) (LNJ option)	dBA	56.8	56.3	58.2	58.3	58.3	56	56.08
DIMENSIONS								
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035
Length	mm	1610	2220	2220	2220	2220	2220	220
Width	mm	860	1100	1100	1100	1100	1100	1000
Height	mm	1540	2100	2100	2100	2100	2100	2120
WEIGHT								
Empty	kg	375	530	560	565	585	670	1000
FREE SPACE								
Electrical panel side	mm	1000	1000	1000	1000	1000	1000	1000
Opposite side of electrical panel	mm	1000	1000	1000	1000	1000	1000	1000
Condensing coil sides	mm	1500	1500	1500	1500	1500	1500	2500

NOTE

- * With double pump the chiller width is 1305 mm
- With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department
- TR45 option required with ambient temperature higher than 40°C
- LW option required with leaving water temperature lower than 4°C
- All data subject to change
- CFT comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers, according to minimum SEPR value.



اطلاعات فنی | TECHNICAL DATA

CFT	MODEL	CFT.160	CFT.185	CFT.200	CFT.230	CFT.280	CFT.340	CFT.370	CFT.430
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	KW	150	170	204	227	277	319	365	410
C.O.P.	kW/kW	3.29	3.24	3.7	3.4	3.25	3.26	3.38	3.28
E.E.R.	kW/kW	2.92	2.92	3.24	2.97	2.92	2.97	3.05	3
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	3	3	3	3	3	3	3	3
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
COMPRESSOR DATA									
Number of compressors	N*	4	4	4	4	4	4	4	4
Number of circuits	N*	2	2	2	2	2	2	2	2
Total compressors nominal absorbed power	KW	45.6	52.4	55.2	66.8	85.2	97.8	108	125
Total compressors running current RLA	A	79.39	91.23	96.16	116.3	148.34	170.28	188.04	217.63
Steps	N*	4	4	4	4	4	4	4	4
EVAPORATOR DATA									
Type of evaporator	Type	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST
Nominal flow rate	m ³ /h	25.72	29.15	34.98	38.93	47.5	54.7	62.59	70.31
Minimum flow rate	m ³ /h	14	14	22	22	25	30	35	35
Maximum flow rate	m ³ /h	34	34	47	47	60	70	80	87
Pressure drops (evaporator+valves+piping)	kPa	57.25	47.84	38.94	42.94	50.29	52.72	54.63	53.51
Hydraulic connections	BSP/DN	DN65	DN65	DN125	DN125	DN125	DN125	DN150	DN150
PROCESS PUMP DATA									
Pump P3 (optional)									
Maximum pump absorbed power	KW	4.56	4.56	8.3	8.3	8.3	8.3	10.2	10.2
Maximum pump absorbed current	A	7.75	7.75	14.1	14.1	14.1	14.1	17.4	17.4
Available pressure with single pump (WP option)	kPa	203.46	208.77	278.98	271.81	254.67	239.84	234.68	227.71
Available pressure with double pump (DP option)	kPa	195.11	197.8	264.27	263.94	243.22	224.06	226.73	218.56
Pump P5 (optional)									
Maximum pump absorbed power	KW	10.2	10.2	16.22	16.22	16.22	16.22	16.22	19.94
Maximum pump absorbed current	A	17.4	17.4	26.6	26.6	26.6	26.6	26.6	32.7
Available pressure with single pump (PH option)	kPa	440.09	445.04	494.24	488.55	474.74	464.5	450.49	421.19
Available pressure with double pump (DPH option)	kPa	431.74	434.07	479.54	480.68	463.28	448.71	442.54	412.04
TANK DATA (optional)									
Volume (optional)	dm ³	390	390	390	500	500	500	500	500
Expansion vessel volume (XV option)	dm ³	19	19	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA									
Number of condenser coils	N*	1	1	1	1	1	1	1	1
Number of fans	N*	3	3	4	5	5	5	6	6
Total absorbed power	kW	5.82	5.82	7.76	9.7	9.7	9.7	11.64	11.64
Total absorbed current	A	11.7	11.7	15.6	19.5	19.5	19.5	23.4	23.4
Total air flow	m ³ /h	57000	54000	68800	91000	90000	85000	102000	96000
TOTAL ELECTRIC DATA (standard configuration)									
Nominal absorbed power	kW	51.42	58.22	62.96	76.5	94.9	107.5	119.64	136.64
Maximum absorbed current (FLA)	A	109.7	131.7	148.48	165.26	197.94	227.3	260.56	289.56
Maximum peak current (LRA)	A	225.2	275.7	337.04	353.82	425.33	478.01	511.27	623.77
Maximum peak current with soft-start (LRA) (SF option)	A	197.2	240.9	292.04	308.82	370.93	416.01	449.27	542.17
NOISE DATA									
Sound pressure level at 10m according ISO3744	dB(A)	61.3	61.5	63.3	64.6	66	66	66.4	67.8
Sound pressure level at 10m according ISO3744 (low noise version) (LNJ option)	dB(A)	60.1	60.2	61.7	62.8	63.5	63.5	64	64.8
DIMENSIONS									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	3355	3355	4355	5350	5350	5350	6350	6350
Width	mm	1105	1105*	1105*	1105	1105	1105	1105	1105
Height	mm	2180	2180	2180	2180	2180	2180	2180	2180
WEIGHT									
Empty	kg	1050	1100	1690	1915	2070	2150	2410	2565
FREE SPACE									
Electrical panel side	mm	1000	1000	1000	1000	1000	1000	1000	1000
Opposite side of electrical panel	mm	1000	1000	1000	1000	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

NOTE

- * With double pump the chiller width is 1305 mm
- With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department
- TR45 option required with ambient temperature higher than 40°C
- LW option required with leaving water temperature lower than 4°C
- All data subject to change
- CFT comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers, according to minimum SEPR value.