

Aircooled liquid chillers CFT series, scroll compressors, plate evaporator, condenser with copper tubes and aluminium finned core and axial fans

Air Conditioning Cooling Application	Model	008	010	012	016	018	022	030	038	045	055	061	070
NOMINAL COOLING CAPACITY (1)	kW	7,9	9,3	12,2	13,5	18,0	22,0	31,0	37,0	45,0	55,0	61	67
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	2,6	3,4	3,9	5,2	5,8	6,7	8,4	11,5	12,4	17,3	16,4	19,3
EER		2,77	2,55	2,78	2,37	2,78	2,93	3,15	2,82	3,25	2,91	3,01	2,89
ESEER		3,32	3,58	3,16	3,48	3,35	3,36	4,01	3,59	3,99	3,71	4,50	4,64
COMPRESSORS	nr.	1	1	1	1	1	1	1	1	1	1	2	2
REFRIGERATING CIRCUITS	nr.	1	1	1	1	1	1	1	1	1	1	1	1
PARTITION STEP	nr.	1	1	1	1	1	1	1	1	1	1	1/1	1/1
REFRIGERANT		R410A											
HYDRAULIC SECTION													
NOMINAL WATER FLOW	m3/h	1,4	1,6	2,1	2,3	3,1	3,8	5,3	6,4	7,7	9,5	10,5	11,5
WATER FLOW RANGE	m3/h	1,2÷2,4	1,2÷3	1,2÷3	1,2÷3	2,3÷5	3÷6	3,5÷6	6÷12	6÷12	6÷12	8÷17	8÷17
TYPE OF EVAPORATOR		Braze Plate evaporator											
EVAPORATOR PRESSURE DROP	kPa	41,5	53,7	41,9	50,0	44,6	66,1	70,3	50,1	45,6	54,7	66,0	46,8
AVAILABLE PRESSURE (3)	kPa	243	241	247	234	232	204	178	229	227	213	166	184
MAXIMUM PUMP ABSORBED POWER (3)	P3 kW	0,88	0,98	0,98	0,98	0,98	1,28	1,28	2,20	2,20	2,20	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (3)	A	1,65	1,78	1,78	1,78	1,78	2,37	2,37	4,24	4,24	4,24	4,56	4,56
AVAILABLE PRESSURE (4)	kPa	532	476	454	370	515	454	342	548	514	446	405	423
MAXIMUM PUMP ABSORBED POWER (4)	P5 kW	1,10	1,10	1,10	1,10	1,47	1,47	1,47	2,94	2,94	2,94	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (4)	A	2,17	2,17	2,17	2,17	2,86	2,86	2,32	5,83	5,83	5,83	10,4	10,4
HYDRAULIC CONNECTIONS	BSP/DN	1"	1"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
TANK VOLUME (5) (6)	dm3	50	50	50	50	110	110	200	200	200	200	390	390
EXPANSION VESSEL VOLUME (7)	liters		5			8		12				19	
FAN SECTION (AXIAL)													
TOTAL AIR FLOW	m3/h	4100	4100	4750	4750	6500	7400	16000	16400	15000	15600	25000	36000
FANS	nr.	1	1	1	1	1	1	2	2	2	2	2	2
FANS ABSORBED POWER	kW	0,25	0,25	0,49	0,49	0,68	0,81	1,44	1,62	1,44	1,62	3,88	3,88
FANS ABSORBED CURRENT	A	1,10	1,10	2,40	2,40	3,00	1,50	2,82	3,08	2,82	3,08	7,80	7,80
TOTAL ELECTRIC DATA IP54 protection rating, chillers suitable for outdoor installation													
NOMINAL ABSORBED POWER (8)	kW	2,9	3,7	4,4	5,7	6,5	7,5	9,8	13,1	13,8	18,9	18,9	23,2
MAXIMUM ABSORBED CURRENT (F.L.A.) (8)	A	8,4	8,7	10,6	12,2	17,0	21,3	22,0	27,6	32,8	39,5	43,4	51,5
MAXIMUM PEAK CURRENT (L.R.A.) (8)	A	48,0	48,0	69,0	69,0	73,0	104,0	118,0	140,0	174,0	225,0	142,2	167,0
MAXIMUM PEAK CURRENT WITH SOFT-START OPTION (L.R.A.)	A	NA	NA	NA	NA	NA	NA	94,4	112,0	139,2	180,0	118,6	139,0
ELECTRIC FEED	V/Ph/Hz	400/3/50/N						400/3/50					
NOISE DATA													
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (8)	dB(A)	50,0	50,0	50,0	50,0	51,3	54,3	53,5	57,1	54,3	58,6	57,3	59,2
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (2) (8)	dB(A)	NA	NA	NA	NA	NA	NA	52,3	56,2	52,6	56,8	56,3	58,2
DIMENSIONS AND WEIGHT													
LENGTH	mm	820	820	820	820	1010	1010	1610	1610	1610	1610	2220	2220
WIDTH	mm	615	615	615	615	720	720	860	860	860	860	1100	1100
HEIGHT	mm	1360	1360	1360	1360	1580	1580	1540	1540	1540	1540	2100	2100
WEIGHT EMPTY (6)	kg	135	135	140	140	165	205	275	280	295	375	530	560
WEIGHT OPERATIVE (6)	kg	135	135	140	140	165	205	280	285	300	380	545	575

The manufacturer reserves the right to modify specifications without notice.

Updated on 08/07/16

Data referred to:

- (1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.00043 m²K/W
- (2) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (3) Data referred to WP option (chiller with inbuilt pump P3)
- (4) Data referred to PH option (chiller with inbuilt pump P5)

- (5) Data referred to CST / SST option (chiller with inbuilt tank)
- (6) Minimum water content for the hydraulic circuit to be verified
- (7) Data referred to XV option (expansion vessel kit)
- (8) Data referred to standard chiller configuration NT.NP (chiller without pump and without tank)

Aircooled liquid chillers CFT series, scroll compressors, plate evaporator, condenser with copper tubes and aluminium finned core and axial fans

Air Conditioning Cooling Application	Model	075	090	100	130	160	185	200	230	280	340	370	430	480
NOMINAL COOLING CAPACITY (1)	kW	72	88	100	115	150	170	204	227	277	319	365	410	440
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	22,4	25,2	29,1	35,6	45,6	52,4	55,2	66,8	85,2	97,8	108,0	125,0	143,6
EER		2,74	3,03	3,03	2,92	2,92	2,92	3,24	2,97	2,92	2,97	3,05	3,00	2,83
ESEER		4,31	4,43	4,48	4,28	4,06	4,24	4,51	4,27	4,31	4,31	4,35	4,32	4,17
COMPRESSORS	nr.	2	2	2	4	4	4	4	4	4	4	4	4	4
REFRIGERATING CIRCUITS	nr.	1	1	1	2	2	2	2	2	2	2	2	2	2
PARTITION STEP	nr.	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
REFRIGERANT		R410A												
HYDRAULIC SECTION														
NOMINAL WATER FLOW	m3/h	12,4	15,1	17,2	19,8	25,8	29,2	35,1	39,0	47,6	54,9	62,8	70,5	75,7
WATER FLOW RANGE	m3/h	8÷17	8÷17	8÷21	14÷34	14÷34	14÷34	22÷47	22÷47	25÷60	30÷70	35÷80	35÷87	35÷87
TYPE OF EVAPORATOR		Brazen Plate evaporator												
EVAPORATOR PRESSURE DROP	kPa	53,4	51,2	47,9	59,3	57,6	48,0	39,2	43,1	50,5	53,1	55,0	53,8	50,4
AVAILABLE PRESSURE (3)	kPa	176	172	171	206	203	208	271	263	244	227	222	217	214
MAXIMUM PUMP ABSORBED POWER (3)	P3 kW	2,53	2,53	2,53	4,56	4,56	4,56	8,30	8,30	8,30	8,30	10,20	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (3)	A	4,56	4,56	4,56	7,75	7,75	7,75	14,1	14,1	14,1	14,1	17,4	17,4	17,4
AVAILABLE PRESSURE (4)	P5 kPa	416	410	406	446	441	444	486	479	466	453	438	409	406
MAXIMUM PUMP ABSORBED POWER (4)	kW	6,12	6,12	6,12	10,20	10,20	10,20	16,22	16,22	16,22	16,22	16,22	19,94	19,94
MAXIMUM PUMP ABSORBED CURRENT (4)	A	10,4	10,4	10,4	17,4	17,4	17,4	26,6	26,6	26,6	26,6	26,6	32,7	32,7
HYDRAULIC CONNECTIONS	BSP/DN	2"	2"	2"	DN65	DN65	DN65	DN125	DN125	DN125	DN125	DN150	DN150	DN150
TANK VOLUME (5) (6)	dm3	390	390	390	390	390	390	390	500	500	500	500	500	500
EXPANSION VESSEL VOLUME (7)	liters	19												
FAN SECTION (AXIAL)														
TOTAL AIR FLOW	m3/h	36000	34000	32000	40000	57000	54000	68800	91000	90000	85000	102000	96000	96000
FANS	nr.	2	2	2	2	3	3	4	5	5	5	6	6	6
FANS ABSORBED POWER	kW	3,88	3,88	3,88	3,88	5,82	5,82	7,76	9,70	9,70	9,70	11,64	11,64	11,64
FANS ABSORBED CURRENT	A	7,80	7,80	7,80	7,80	11,70	11,70	15,60	19,50	19,50	19,50	23,40	23,40	23,40
TOTAL ELECTRIC DATA IP54 protection rating, chillers suitable for outdoor installation														
NOMINAL ABSORBED POWER (8)	kW	26,3	29,1	33,0	39,4	51,4	58,2	63,0	76,5	94,9	107,5	119,6	136,6	155,2
MAXIMUM ABSORBED CURRENT (F.L.A.) (8)	A	56,8	67,8	74,2	84,7	109,7	131,7	148,5	165,3	197,9	227,3	260,6	289,6	318,6
MAXIMUM PEAK CURRENT (L.R.A.) (8)	A	172,3	211,8	262,8	183,5	225,2	275,7	337,0	353,8	425,3	478,0	511,3	623,8	652,8
MAXIMUM PEAK CURRENT WITH SOFT-START OPTION (L.R.A.)	A	144,3	177,0	217,8	159,9	197,2	240,9	292,0	308,8	370,9	416,0	449,3	542,2	571,2
ELECTRIC FEED	V/Ph/Hz	400/3/50												
NOISE DATA														
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (8)	dB(A)	59,3	59,5	60,3	59,5	61,3	61,5	63,3	64,6	66,0	66,0	66,4	67,8	68,9
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (2) (8)	dB(A)	58,3	58,3	58,7	58,3	60,1	60,2	61,7	62,8	63,5	63,5	64,0	64,8	65,4
DIMENSIONS AND WEIGHT														
LENGTH	mm	2220	2220	2220	3355	3355	3355	4355	5350	5350	5350	6350	6350	6350
WIDTH	mm	1100	1100	1100	1105	1105	1105	1105	1105	1105	1105	1105	1105	1105
HEIGHT	mm	2100	2100	2100	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180
WEIGHT EMPTY (6)	kg	565	585	670	1000	1050	1100	1690	1915	2070	2150	2410	2565	2670
WEIGHT OPERATIVE (6)	kg	580	600	685	1025	1080	1135	1710	1950	2110	2195	2455	2615	2730

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Updated on 08/07/16

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- (1) Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W
- (2) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
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