

Aircooled liquid chillers ITC series, inverter driven screw compressors R134a, shell and tube evaporator, condenser with copper tubes and aluminium finned core and axial fans - High efficiency CLASS A

Cooling Big Evolution		Model	230	280	340	450	510	560	630	700	770	860	950
NOMINAL COOLING CAPACITY (1)	kW	224	274	347	447	508	563	631	695	774	856	955	
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	64,6	77,5	104,4	129,6	149,4	164,6	186,4	202,8	232,8	262,2	299,4	
COP (1)	kW/kW	3,47	3,53	3,32	3,45	3,40	3,42	3,39	3,43	3,33	3,26	3,19	
EER (1)	kW/kW	3,02	3,14	2,99	3,08	3,08	3,06	3,07	3,08	2,98	2,92	2,86	
TOTAL COMPRESSORS ABSORBED POWER AT 50% LOAD (2)	kW	18,0	20,8	26,9	36,0	40,2	44,4	48,6	53,4	59,6	65,2	74,8	
COP (2)	kW/kW	6,29	6,57	6,46	6,29	6,39	6,46	6,51	6,53	6,44	6,56	6,47	
EER (2)	kW/kW	4,95	5,33	5,31	5,17	5,35	5,30	5,43	5,36	5,24	5,30	5,25	
ESEER		4,86	5,00	5,01	4,94	5,08	5,02	5,14	5,05	4,93	4,98	4,91	
IPLV		5,65	5,61	5,75	5,61	5,81	5,73	5,90	5,76	5,65	5,73	5,67	
COMPRESSORS	nr.	1	1	1	2	2	2	2	2	2	2	2	
REFRIGERATING CIRCUITS	nr.	1	1	1	2	2	2	2	2	2	2	2	
WITH ECONOMIZER (1)		NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	YES	
NOMINAL WORKING FREQUENCY OF COMPRESSORS (1)	%	80%	96%	98%	80%	91%	100%	100%	97%	99%	96%	99%	
HYDRAULIC SECTION													
NOMINAL WATER FLOW	m3/h	38,6	47,1	59,6	76,8	87,4	96,9	108,6	119,6	133,2	147,2	164,2	
EVAPORATOR PRESSURE DROP	kPa	54	63	71	63	66	69	73	68	74	75	71	
AVAILABLE PRESSURE (3)	mca	25	22	25	23	21	25	24	23	21	22	22	
MAXIMUM PUMP ABSORBED POWER (3)	kW	6,3	6,3	10,2	10,2	10,2	16,5	16,5	16,5	16,5	23,6	23,6	
MAXIMUM PUMP ABSORBED CURRENT (3)	A	10,4	10,4	16,7	16,7	16,7	26,2	26,2	26,2	26,2	38,2	38,2	
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	125	125	125	150	150	150	150	150	200	200	200	
TANK VOLUME (3)	dm3	500	500	500	600	600	600	600	800	800	800	1000	
FAN SECTION (AXIAL)													
CONDENSER COILS	nr.	1	1	1	4	4	4	4	4	4	4	4	
TOTAL AIR FLOW	m3/h	82500	79500	85800	129600	129600	162000	162000	194400	226800	259200	273600	
FANS	nr.	5	5	6	8	8	10	10	12	14	16	18	
FANS ABSORBED POWER	kW	9,70	9,70	11,64	15,52	15,52	19,40	19,40	23,28	27,16	31,04	34,92	
FANS ABSORBED CURRENT	A	19,50	19,50	23,40	31,20	31,20	39,00	39,00	46,80	54,60	62,40	70,20	
TOTAL ELECTRIC DATA													
NOMINAL ABSORBED POWER (4)	kW	80,6	93,5	126,2	155,3	175,1	200,5	222,3	242,6	276,5	316,8	357,9	
MAXIMUM ABSORBED CURRENT (F.L.A.) (4)	A	249,9	249,9	260,1	487,9	487,9	505,2	505,2	593,0	600,8	780,6	788,4	
STARTING CURRENT (L.R.A.) (4)	A	34,9	34,9	45,1	272,9	272,9	290,2	290,2	338,0	345,8	445,6	453,4	
ELECTRIC FEED	V/Ph/Hz	400/3/50											
NOISE DATA													
SOUND PRESSURE (5)	dB(A)	64,7	66,9	67,6	67,2	68,8	70,6	70,6	70,7	71,3	71,2	72,1	
DIMENSIONS AND WEIGHT													
LENGTH	mm	5350	5350	6350	5000	5000	5950	5950	6900	7850	8800	9750	
WIDTH	mm	1305	1305	1305	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2180	2180	2180	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY	kg	2380	2470	2790	4830	4900	5210	5620	5950	6220	7590	8410	
WEIGHT OPERATIVE	kg	3230	3320	3630	5730	5800	6060	6570	6850	7120	8490	9310	

The manufacturer reserves the right to modify specifications without notice.

Updated on 15/06/2015

Data referred to:

- (1) 100% of Load - Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W.
- (2) 50% of Load - Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +25°C; fouling factor = 0.000043 m²K/W; without economizer.
- (3) With options NT.WP (no tank - water pump) or T.WP (tank - water pump).
- (4) Data referred at 100% of frequency of inverter driven screw compressors. Pump absorbed power and current included.
- (5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface