

Modular air-cooled liquid chillers PRP series designed to minimize the refrigerant charge, reciprocating compressors, R290 refrigerant, brazed plate evaporator, aluminium microchannel condenser, AC axial fans regulated with cut phase speed regulator. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable only for outdoor installation in open air (10). Leak detection system included.
You can connect up to 8 modules in parallel with a single power supply point into a master control panel installed onboard of the first module.

Available Models configurations:

HT = configuration for leaving water temperature down to 5°C with standard frigorific circuit

MT = configuration for leaving water temperature below 5°C with the adding of liquid-suction heat exchanger on the frigorific circuit that permit to subcooling liquid refrigerant to prevent flash gas formation at inlet to expansion valve and fully evaporating any residual liquid that may remain in the liquid-suction prior to reaching the compressor

TECHNICAL DATA

PERFORMANCES		Model	080	095	120	145	160	190	240	290
PRP-HT (1)	NOMINAL COOLING CAPACITY (8)	kW	84,9	97,3	124,5	138,8	169,8	194,7	248,9	277,6
	TOTAL NOMINAL ABSORBED POWER	kW	24,7	30,0	44,9	51,3	49,4	60,1	89,9	102,5
	EER	kW/kW	3,02	2,91	2,58	2,54	3,02	2,91	2,58	2,54
	REFRIGERANT CHARGE (8) (10)	kg	13	13	13	13	13 + 13	13 + 13	13 + 13	13 + 13
	NOMINAL WATER FLOW	m3/h	14,6	16,7	21,4	23,8	29,3	33,4	42,8	47,7
	SINGLE MODULE PRESSURE DROPS (4)	kPa	45	56	48	48	45	56	48	48
PRP-MT (2)	MULTIPLE MODULES PRESSURE DROPS (5)	kPa	54	69	70	69	54	69	70	69
	NOMINAL COOLING CAPACITY (8)	kW	58,1	65,9	80,9	86,0	116,2	131,7	161,8	172,0
	TOTAL NOMINAL ABSORBED POWER	kW	19,9	24,1	35,7	40,7	39,8	48,2	71,4	81,5
	EER	kW/kW	2,50	2,40	2,07	1,95	2,50	2,40	2,07	1,95
	REFRIGERANT CHARGE (8) (10)	kg	15	15	15	15	15 + 15	15 + 15	15 + 15	15 + 15
	NOMINAL WATER FLOW	m3/h	13,9	15,6	19,3	20,5	27,8	31,2	38,6	41,1
FRIGORIFIC SECTION	SINGLE MODULE PRESSURE DROPS (4)	kPa	57	69	55	50	57	69	55	50
	MULTIPLE MODULES PRESSURE DROPS (5)	kPa	66	80	72	70	66	80	72	70
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	2/2/2	2/2/2	2/2/2	2/2/2
HYDRAULIC SECTION (3)										
WATER FLOW RANGE		m3/h	9-22	9-22	16-40	16-40	20-50	20-50	34-80	34-80
HYDRAULIC CONNECTIONS FOR SINGLE MODULE (FLANGED)		DN	50	50	65	65	80	80	100	100
HEADERS CONNECTIONS SIZE (VICTAULIC) (9)		DN	150	150	150	150	150	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	2	4	4	4	4
MAXIMUM FANS ABSORBED POWER	AC	kW	3,68	3,68	3,68	3,68	7,36	7,36	7,36	7,36
		A	7,66	7,66	7,66	7,66	15,32	15,32	15,32	15,32
TOTAL AIR FLOW		m3/h	41160	41160	41160	41160	82320	82320	82320	82320
MAXIMUM FANS ABSORBED POWER (OPTION EC)	EC	kW	5,12	5,12	5,12	5,12	10,24	10,24	10,24	10,24
		A	7,80	7,80	7,80	7,80	15,60	15,60	15,60	15,60
TOTAL AIR FLOW (OPTION EC)		m3/h	43520	43520	43520	43520	87040	87040	87040	87040
TOTAL ELECTRIC DATA (8)										
MAXIMUM ABSORBED CURRENT (F.L.A)		A	68,7	82,3	111,0	118,9	137,3	164,5	221,9	237,7
MAXIMUM PEAK CURRENT (PART WINDING START) (L.R.A)		A	159,2	188,6	390,0	417,0	227,9	270,9	501,0	535,9
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)		A	127,4	150,9	312,0	333,6	196,0	233,1	423,0	452,5
NOISE DATA (6) (8)										
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	59,2	59,5	60,5	64,0	62,2	62,5	63,5	67,0
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ)		dB(A)	57,4	57,9	59,5	60,5	60,4	61,0	62,5	63,5
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN)		dB(A)	55,3	55,7	58,1	59,4	58,3	58,7	61,1	62,5
DIMENSIONS AND WEIGHT										
LENGTH (SINGLE MODULE, HEADERS EXCLUDED)		mm	1610	1610	1610	1610	3300	3300	3300	3300
LENGTH (MULTIPLE MODULES, HEADERS INCLUDED)		mm	1662	1662	1662	1662	3580	3580	3580	3580
WIDTH (SINGLE MODULE, HEADERS EXCLUDED)		mm	2590	2590	2590	2590	2210	2210	2210	2210
WIDTH (MULTIPLE MODULES, HEADERS INCLUDED)		mm	2870	2870	2870	2870	2254	2254	2254	2254
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY (7) (8)		kg	1390	1395	1465	1480	2165	2175	2245	2260
WEIGHT OPERATIVE (7) (8)		kg	1450	1455	1525	1540	2215	2225	2295	2320

The manufacturer reserves the right to modify specifications without notice.

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Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water, AC fans
- (2) Data referred to inlet/outlet water temperature = -4/-8 °C, ambient temperature = +35°C, fluid = 70% Water + 30% Ethylene Glycol, AC fans
- (3) Pump and tank can be supplied in a separate hydro-module (HITEMA HYD series)
- (4) Pressure drops taken in account: evaporator, piping
- (5) Pressure drops taken in account: evaporator, automatic isolation valves, circuit setter balancing valve, one way valve, piping
- (6) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (7) Weight referred to PRP-LT version, multiple module configuration. Weight to be confirmed in case of order
- (8) Data referred to standard chiller configuration NP (no pump), aluminium microchannel condenser and AC fans
- (9) Headers connection size is valid for a maximum flow rate of 191 m3/h in multi-module configuration. Dimensions will increase for greater flow rate
- (10) PRP series can be installed only in an area with c access category (as per chapter 5.1.1 of EN 378-1:2016) in open air, class III location (as per chapter 5.3 of EN 378-1:2016)