



600kW AIR COOLED LIQUID CHILLER



CODE: 1CHL-0600



ACCESSORIES



CHILLED WATER PUMPS



CHILLED WATER PIPE WORK



1400 AMP
SWITCH BOARDS



5 LANE CROSS OVER



3 PHASE CABLES

The 600kW air cooled liquid chiller features the best technological solutions: 30% reduction in refrigerant charge through the use of all aluminium micro channel heat exchanger(MCHX), refrigerant R134a, twin screw compressors, low-noise generation Four condenser fans made of a composite material, auto-adaptive microprocessor control with touch screen users interface. Industry leading full and part load energy efficiency. All high efficiency units are in Eurovent Class A EER, Average integrated part load value (IPLV) of 4.60 kW/kW. Low sound emissions as standard. The innovative all aluminium MCHX condenser is 3.5 times more resistant to corrosion than a standard coil. The new 06T direct drive screw compressor is fully serviceable on site.



EASY AND FAST
INSTALLATION



VERY ECONOMICAL
OPERATION



ENVIRONMENTAL CARE



LOW OPERATING
SOUND LEVELS

PRODUCT SPECIFICATIONS

POWER REQUIREMENTS		TECHNICAL INFORMATION		CONDENSER INFORMATION	
Tag Name:	30XA-602	TCooling Capacity:	575.8 kW	Altitude:	0 m
Model Number:	30XA0602-A	Total Compressor Power:	183.4 kW	Number of Fans:	11
Quantity:	1	Total Fan Motor Power:	7.97 kW	Total Condenser Fan Air Flow at 20°C:	37583 L/s
Manufacturing Source:	Montluel, France	Total Unit Power:	192.5 kW	Entering Air Temperature:	35.0 °C
Refrigerant:	R134A	Efficiency:	2.99 kW/kW	ELECTRICAL INFORMATION	
Shipping Weight:	6013 kg	A-Weighted Sound Power Level:	95 dbA	Unit Voltage:	400-3-50 V-Ph-Hz
Operating Weight:	6097 kg			Standby Power:	0.22 kW
Unit Length:	7186 mm			Minimum Voltage:	360 Volts
Unit Width:	2253 mm			Maximum Voltage:	440 Volts
Unit Height:	2297 mm			Power Factor:	0.87

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Cooling Chillers Reverse Cycle Heating Refrigeration Dehumidification Ventilation Power

SYDNEY | MELBOURNE | BRISBANE | PERTH | ADELAIDE | HOBART | CANBERRA

**EVAPORATOR INFORMATION**

Fluid Type:	Fresh Water
Fouling Factor:	0.0180 (sqm-K)/kW
Number of Passes:	2
Leaving Temperature:	6.0 °C
Entering Temperature:	12.0 °C
Fluid Flow:	22.91 L/s
Total Pressure Drop:	30.1 kPa

ACCESSORIES AND INSTALLED OPTIONS

Opt. 156 Energy Management Module
Opt. 256 Suction Line Insulation
Opt. 200 Australian Compliance
Opt. 281 Cooler with Aluminium Cladding
Opt. 279 Unit with Compressor Enclosure
Opt. 148C CCN to Bac-Net Gateway
Opt. 23A Side Panels Only
Opt. 158 Touchscreen Interface

Amps (Un)	Electrical Circuit 1	Electrical Circuit 2
Max Unit Current Draw (RLA)	404.4	---
Max Start Up Current (ICF)	574.2	---
Nominal Unit Current Draw (A)	322.1	---

COOLING CAPACITY

Cap kW	Unit kW	EER kW/kW	Cap kW	Unit kW	EER kW/kW	Cap kW	Unit kW	EER kW/kW
260	11	24	382	11	34.3	425	11	37.8

Legend

LWT	Leaving water temperature
Cap kW	Cooling capacity
Unit kW	Unit power input (compressors, fans, control)
EER kW/kW	Energy efficiency ratio

PHYSICAL DATA

Cooling capacity*	kW 603
Heating capacity in heat reclaim mode*	kW 760
Total power input (unit)*	kW 172
Total power input (unit)*	kW 3.52/4.44
OPERATING WEIGHT**	kg 7000
REFRIGERANT CHARGE	
Circuit A	kg 62
Circuit B	kg 62
HEAT RECLAIM CONDENSER	Flooded multi-pipe condenser
Water volume	l 55+55
Water connections	Victaulic
Diameter	in 4
Outside Diameter	in 106

* Entering and leaving water temperature: evaporator 12°C/7°C; heat reclaim condenser: 40°C/45°C

** Weights are for guidance only

SOUND LEVELS

Standard unit	
Sound power level	dB(A) 94
Sound pressure level at 10 m**	dB(A) 62
Standard unit + option 257	
Sound power level*	dB(A) 91
Sound pressure level at 10 m**	dB(A) 59
High energy efficiency version (option 119)	
Sound power level*	dB(A) 96
Sound pressure level at 10 m**	dB(A) 63
Unit with options 119 + 257	
Sound power level*	dB(A) 95
Sound pressure level at 10 m**	dB(A) 62

*10⁻¹² W - In accordance with ISO 9614-1 and certified by Eurovent

** Average sound pressure level, unit in a free field on a reflective surface

OPERATING LIMITS

	Free - cooling mode	Mechanical cooling mode (compressors)
Evaporator water temperature, °C		
Minimum leaving water temperature	3.3	3.3
Maximum leaving water temperature	25	15.6
Condenser air temperature, °C		
Minimum entering air temperature	-20	-20*
Maximum entering air temperature	20	55

* For operation at an air temperature below -10°C option 28 (winter operation) is required.

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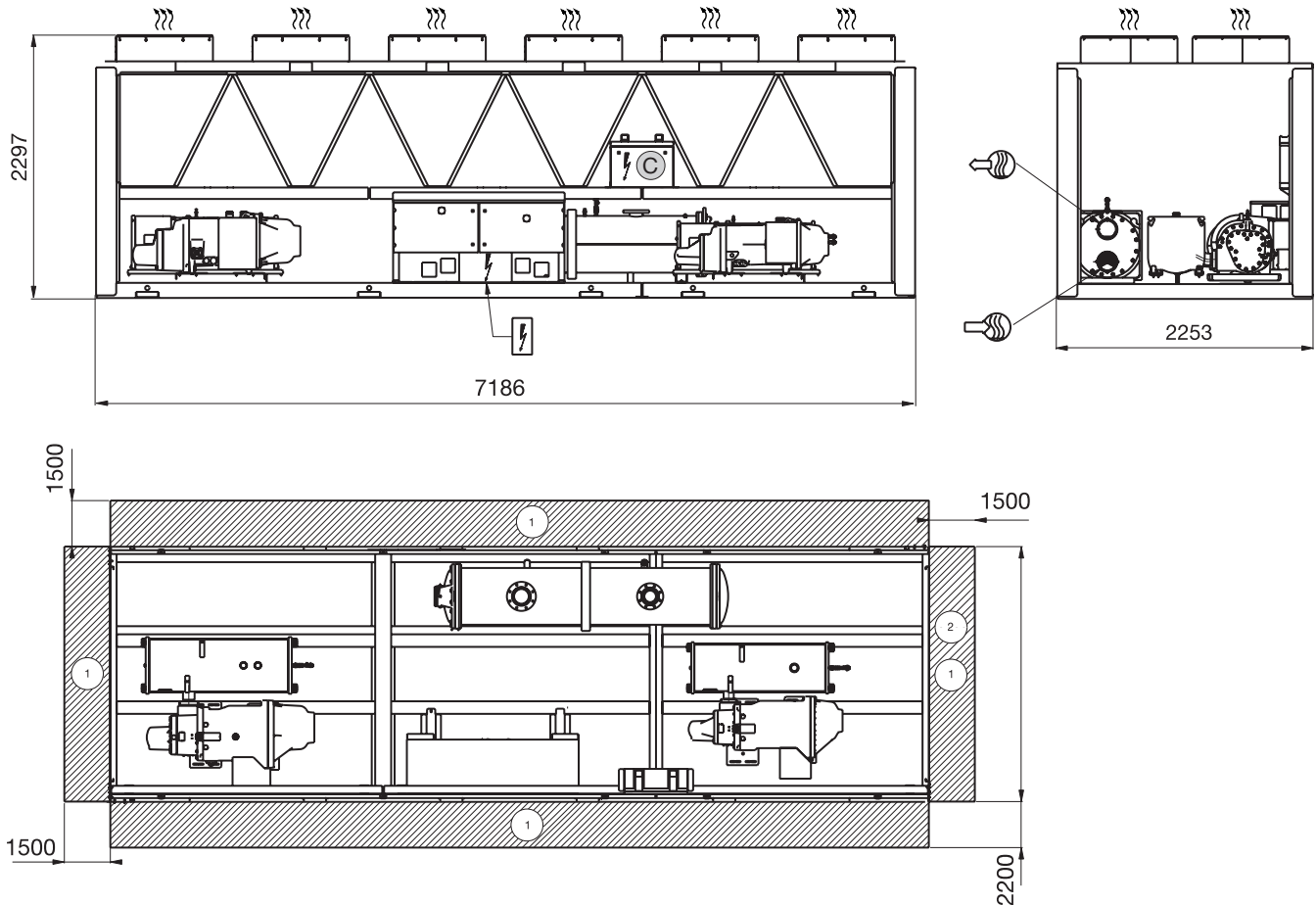
PART LOAD PERFORMANCES

IPLV	kW/kW	4.61
ESSER	kW/kW	4.3

EVAPORATOR WATER FLOW RATE, l/s

Minimum	Maximum*
8.1	45

* The maximum water flow rate corresponds to a pressure drop of 100 kPa.



LEGEND (All dimensions are given in mm)

- 1 Required clearances for maintenance and air flow
- 2 Recommended space for evaporator tube removal
- Water inlet
- Water outlet
- Air outlet – do not obstruct
- Power supply connection
- Control circuit connection

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