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PROJEKCE VZDUCHOTECHNIKY, KLIMATIZACE A CHLAZENÍ

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Místo stavby	Plzeň							
Stavba	<b>Dodatečná instalace kompresorového chladicího stroje pro chlazení objektu FDULS</b>	<table><tr><td>Stupeň</td><td>DPS</td><td rowspan="2">Č. paré</td></tr><tr><td>Datum</td><td>1/2024</td></tr></table>	Stupeň	DPS	Č. paré	Datum	1/2024	
Stupeň	DPS	Č. paré						
Datum	1/2024							
Profese	<b>Zdroj chladu</b> <b>Technické parametry zařízení</b>	<table><tr><td>Č. zakázky</td><td>40-23</td><td>Č. přílohy</td></tr><tr><td></td><td></td><td><b>3.</b></td></tr></table>	Č. zakázky	40-23	Č. přílohy			<b>3.</b>
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## TECHNICKÉ PARAMETRY ZAŘÍZENÍ

„Technické parametry zařízení“ jsou nedílnou součástí Výkazu výměr

KONKRETIZUJÍ VÝKONY, PARAMETRY A ROZMĚRY ZDROJE CHLADU atd.

Pro zpracování dokumentace a předání podkladů bylo nutno pracovat s konkrétními výrobky, těmito výrobky je dán standard projektu.

Tyto materiály uvedené v projektové dokumentaci pro zadání stavby jsou pouze směrné dle nutných standardů. Materiály a výrobky je možné zaměnit při zachování shodných nebo lepších parametrů a funkce. Při případných změnách je nutno pamatovat na navazující profese, které pro vlastní dimenzování počítaly s předanými podklady.

Materiál	Popis	ks	Cena/ks	Cena celkem
Chiller s invertory na kompr. a vent.		1	1 *	
Sada modemu Daikin on Site s anténou		1		
Rozšiřovací modul vstupů/výstupů		1		1 000,00 Kč
Commissioning for APS small chiller		1		

## Celkem

Cena včetně recyklačního příspěvku

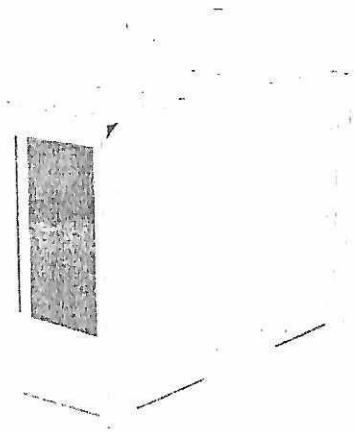
## Obchodní podmínky

### Ceny:

Ceníkové do projektu, bez DPH.

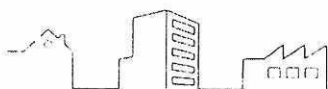
### Platnost nabídky:

Tato nabídka je platná po dobu 90 dní od data vystavení, pokud není písemně dohodnuto jinak. Veškeré příslušenství a služby neuvedené v nabídce nejsou tudíž předmětem dodávky Daikin a musí být zajištěny na místě stavby. Záruční podmínky se řídí Všeobecnými obchodními podmínkami firmy Daikin.



- > Air cooled chiller
- > > DC-Inverter Scroll Compressor
- > Premium efficiency version
- > High Efficiency
- > R-32 refrigerant

- **Unit description:** air cooled chiller with inverter driven hermetic scroll compressors and R32 refrigerant.  
**Unit colour:** White.
- **Compressor:** Inverter driven hermetic orbiting scroll are combined on each unit. Inverter compressors continuously adjust compressor speed to actual demand. Fewer power-consuming starts and stops result in decreased energy consumption and more stable temperatures. Compressors are equipped with oil heaters that keeps the oil from being diluted by the refrigerant when the chiller is not running.
- **Evaporator:** The unit is equipped with a direct expansion plate to plate type evaporator. This heat exchanger is made of stainless steel brazed plates and covered with nitrile rubber based elastomeric foam. Unit is equipped with the necessary devices for plant integration, such as: flow switch, treated water connections, air purge and drain valves, safety valve, shut off valve.
- **Condenser:** Fins and tubes air cooled coil. Fins are designed with non-symmetric waffle louvers to enhance the heat exchange and improve the efficiency and compactness of the unit. The presence of hydrophilic and anti-corrosion treatment on the coil fins enhances the resistance to the aggressive environments.
- **Condenser coil fans:** Unit fans are axial type equipped with Brushless DC motor to maximize performances. The material of the blades is glass reinforced resin and each fan is protected by a guard. Fans offer an available external static pressure equal to allow a ducted installation.
- **Refrigerant circuit:** Each refrigerant circuit includes: Compressors, Refrigerant, Air Cooled Condenser, Electronic expansion valve, Oil separator, High pressure switch, refrigerant stop valves (liquid and gas).



## Technical Data Sheet

10/11/2023 - Chiller - Smallchiller 1.7 Ref. 1180 3180

### Unit Overview

Model Number	Capacity kW	IPLV/IP kW / kW	Voltage	Boost
	99.45	5.610	400 V / 50 Hz / 3N~	Yes

Performances calculated according to EN14511-3

### Cooling mode performances

Cooling capacity	99.45 kW	IPLV/IP	5.610 kW / kW
Power input	38.42 kW	SEPR	5.18 kW / kW
Cooling Efficiency EER	2.588 kW / kW	$\eta_{S,C}$	204.2 %
Lw / Lp @ 1m	85 dB(A) / 67 dB(A)	SEPR	7.14 kW / kW
Ambient temperature	35 °C		
Evaporator			
Fluid IN/OUT	13 °C / 7 °C	Water Flow	3.950 l/s
Pressure Drops	17.9 kPa		
Fluid	Water	Flowing factor	0.00E0 m2°C/kW

SEPR declared according to EN14825, fan coil application, 12/7 °C (inlet/outlet) water temperatures. SEPR declared according to EN14825 2018, high temperature process cooling application. Sound power level according to ISO 9614-1. IPLV/IP and seasonal efficiency data generally refer to standard unit without options

### Unit information

Compressor type	Scroll	Refrigerant charge	14.4 kg
Capacity control	InverterControlled	Refrigerant type	R32
Compressor N°	2	Circuit N°	2
Condenser fans N°	4	Evaporator type	BrazedPlate
Condenser fans control	Variable Frequency Drive	Pump	Low lift pump
Nominal air flow	13400 l/s		

Aqua+refrigerant charge depends on the final unit construction, refer to unit nameplate

### Electrical information

Power supply	400 V / 50 Hz / 3N~	Compressor starting method	Variable Frequency Drive
Running current	68.3 A	Max. inrush current	0 A
Max. Running current	88.4 A		

Voltage tolerance: + 10% Phase Voltage unbalance: + 3%. Electrical data referred to standard unit without options, refer to unit name plate data.

### Acoustic information

Sound pressure level at 1 m from the unit (rif. $2 \times 10^{-5}$ Pa)								
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	db(A)
75	71	66	63	61	61	53	46	67
Sound pressure level from the distance (rif. $2 \times 10^{-5}$ Pa)								
Distance [m]	5						10	
Lp [db(A)]	40.16						35.1	

Values referred to: Zap. IN/OUT 12/7 °C and Cond. IN/OUT 30/35 °C, full load operation, standard unit configuration without options. Sound pressure level calculated from sound power level. Sound pressure in octave band is for information only and not considered binding

### Physical information



Specifications are subject to change without any prior notice.

The certified standard performances and the certified software tool version can be verified in [www.eurovent-certification.com](http://www.eurovent-certification.com)

## Technical Data Sheet

10/11/2023 - Chiller - Smallchiller 1,7 Ref. 1180 - 3180

Connections size	50.8 mm
Height	1878 mm
Weight shipping/operating	727 kg / 735 kg

Length	814 mm
Width	3506 mm

Information referred to standard unit configuration without options: refer to certified unit drawing.

### Options

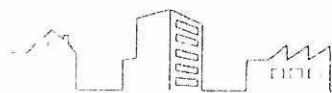
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ANTI REFLZ PROTECTION ELECTRIC HEATER

### General notes

For more information about the above selected product, please go to <http://www.daikin-europe.com/industrial/>. Unit performances are reproducible in laboratory test environment only in accordance to recognized industry standards. This technical data sheet is generated by Daikin Applied tool software designed and distributed by Daikin Applied Europe S.p.A. The present software does not constitute an offer binding upon Daikin Applied Europe S.p.A who compiled the content of this software to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Product images are indicative only and are intended for illustrative purposes only; pictures may be differed from the ordered product and are subject to change without prior notice. Daikin Applied Europe S.p.A. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this document. All content is copyrighted by Daikin Applied Europe S.p.A.

This product is manufactured in Italy.



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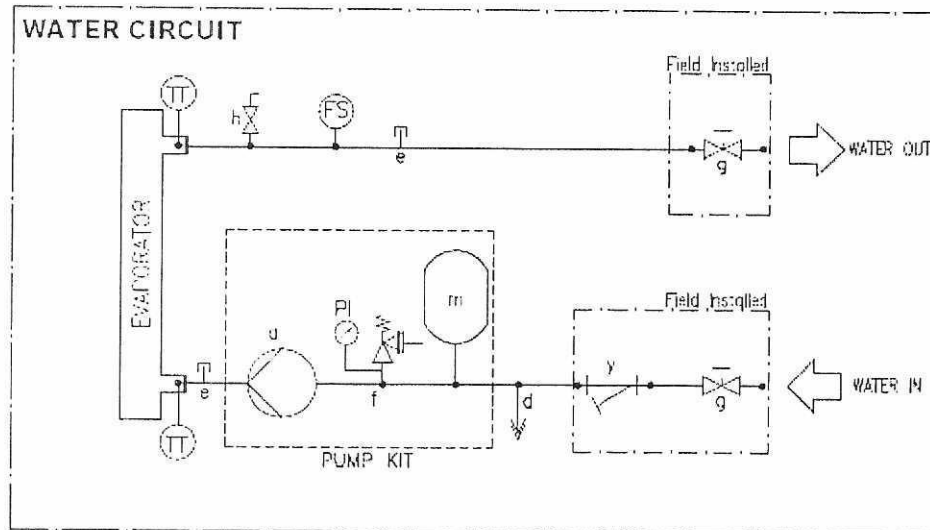
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**Water filter** The installation of the filter is mandatory. The water filter has to be installed as close as possible to the chiller. If the chiller is installed in a different part of the hydraulic system, the installer must ensure the cleaning of the water pipes between water filter and evaporator. The pressure drop value showed in CSS (Chiller Selection Software) are referred to chiller evaporator only.

## Hydraulic schemes

- Hydraulic scheme



### WATER CIRCUIT EQUIPMENT

u	PUMP
d	DRAIN
h	FLOODED FITTING
f	SAFETY VALVE 3 BAR 1/2"
g	SHUT OFF VALVE
e	AIR VENT (valvola di sfogo)
m	EXPANSION VESSEL
y	WATER FILTER
TT	TEMPERATURE SENSOR (sensore di temperatura)
P	PRESSURE GAUGE (manometro)
FS	FLOWSWITCH (flusso-switch)

## Water pressure

Check whether the water pressure is above 1 bar. If it is lower, add water.

The maximum operating pressure is 3 bar for P and H versions.

For N version please take care that the components installed in the field piping can withstand the water pressure "maximum 3 bar + static pressure of the external pump" and not exceeding 10 bar.