

BESCHREIBUNG

WLA10B1A200A080

DESCRIPTION OF THE UNIT

General Description: the WLAcompact is a chiller equipped with hermetic scroll/rotary/piston compressors and with high efficiency stainless steel plate type heat exchangers. Thanks to the wide water inlet and outlet limits and to the numerous configurations and available options, the WLAcompact is on the top of his range, allowing large and versatile applications and high level of reliability. The WLAcompact is therefore the perfect solution for all those industrial applications that require high performances, a continuous operation and a reduction of the managing costs.

Structure and casing: the structure is made of a base and of structural panels in galvanized carbon steel and painted with polyester powder in RAL 7035 light grey. All the panels are dismountable ensuring a better access to internal components and simplifying maintenance.

Compressors: mod. WLA10-13 are equipped with high efficiency scroll compressors with 2-pole motors complete with the protection against overheating and overcurrent and are mounted on rubber anti-vibration dampers. Mod. 02-03 feature a reciprocating compressor. Mod. 05-08 feature an high efficiency rotary compressor.

Refrigerant fluid: R134a

Evaporator: high efficiency stainless steel plate type heat exchanger thermally insulated with 10mm of UV and atmospheric agent resistant thermal insulator. The evaporator is protected from the risk of freezing as standard by a flow switch and an anti-freeze probe.

Condenser: Heat exchanger with finned core condensing coils, featuring copper tubes and corrugated aluminium fins. Metal filters suitable to protect the heat exchanger are available as standard and they' re easily removable to facilitate cleaning operation procedures.

Fans: all the models are equipped with suction fans axial type with sickle-shaped blades in steel, coated in black+ safety guard. The motors of all the fans are equipped with an incorporated thermal protection.

Refrigeration circuit: the refrigeration circuit features

- Refrigerant filter-dryer with hygroscopic molecular sieves
- Refrigerant liquid flow sight glass and moisture control
- Thermostatic expansion valve with external equalization
- High pressure switch

Hydraulic circuit

The hydraulic circuit is no ferrous type and it is atmospheric. It features:

- **Pump:** peripheral pump non-ferrous with body in RYTON/BRASS, front cover and impeller brass, mechanical seal (silicon carbide /graphite / FPM).
- **Storage tank:** storage tank in polyethylene with external thermal insulation. Thanks to its high thermal inertia, it allows to reduce the changes of the process fluid outlet temperature caused by the sudden variations of the thermal load and to minimize the mechanical stress of the compressors thanks to the reduction of the ON/OFF cycles of the compressors. Every storage tank is equipped with a drain and a bleed plugs to vent air during the process of filling the hydraulic circuit.
- **Automatic hydraulic adjustable by-pass:** hydraulic bypass between the supply and return of the process fluid featuring an adjustable overpressure valve. In case of a wrong interception of the inlet and outlet fittings the bypass allows to preserve the integrity of the unit and of the pump as it lets the passage of a minimum flow rate necessary to the intervention of the antifreeze alarm and to protect the pump.
- **Water pressure gauge:** positioned on the rear panel of the machine it measures the pump delivery pressure (0-6barg).
- **Level sensor (option):** this level switch stops the operation of the unit when the level of the process fluid in the accumulation tank is insufficient.
- **Electric pre-heater (option):** the preheater increases the fluid temperature and it is installed directly in contact with the fluid.

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Electrical Board

The electrical cabinet is designed and wired in compliance with EN 60204-1, with Low Voltage Directive 2006/95/CE and with Electromagnetic Compatibility Directive EN61000-6-2. The electrical board is made of top quality components and it is suitable for the indoor installation (the protection rating of the electrical board is IP40).

The power section includes:

- The main disconnect switch (red/yellow) with safety door lock;
- The isolation transformer feeding the control circuits and microprocessor circuit boards;
- Fuses to protect the compressors, fans and pumps;
- Contactors for the control of the compressors, fans and the pumps;
- Potential free contact of ON/OFF remote;
- Potential free contact of general alarm;
- Labelled wires;
- Phase sequence relay standard for 3-phase units

Standard power supply

- WLA02-03: 230V/1ph/50-60Hz
- WLA05-08: 230V/1ph/50-60Hz or 400V/3ph/50Hz 460V/3ph/60Hz (dual frequency)
- WLA10-13: 230V/1ph/50Hz or 400V/3ph/50Hz 460V/3ph/60Hz (dual frequency)

Electronic Control

The WLA chillers are controlled and managed by the electronic controller with presentation of parameters on a LED display and icon-based identification of functions XW07K + keypad CX40. The microprocessor allows to display the main operating parameters of the system and to optimize the performances. The electronic controllers manage the following functions:

- Proportional regulation of the water outlet temperature;
- Antifreeze heater control (water side);
- Count of operating hours of the chiller and compressors;
- Management of alarm messages;
- Alarms history display;
- TTL serial interfaces;

Testing: Before shipment, all the chillers are tested. In particular, the main checks performed are the following: correct installation of all components, absence of refrigerant leaks and electrical safety tests.

TECHNISCHE DATEN

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Modell		WLA compact - 10
Allgemein		
Kälteleistung (1)	kW	4,35
EER (1)		2,82
Elektrische Leistungsaufnahme gesamt (1)	kW	1,54
Betriebsgrenzen Umgebungstemperatur	°C	min -10 max 45
Innen / Aussenaufstellung		indoor
Höhe über dem Meeresspiegel	m	0
Betriebsgrenzen Wasseraustrittstemperatur	°C	min 13 max 30
Tieftemperatur-Option	°C	min -5 max 1
Kältemittel		R134a
Kältemittelfüllmenge	kg	0,72
Spannung/Phase/Frequenz	V/Ph/Hz	230V/1/50Hz
Sekundärversorgung	Vac	230
Maximale elektrische Leistungsaufnahme (FLI) (4)	kW	3,16
Maximale Stromaufnahme (FLA) (4)	A	17,18
Anlaufstrom (MIC)	A	54,75
KOMPRESSOREN		
Kompressor-Typ	Scroll	1
Kältekreisläufe		1
Elektrische Leistungsaufnahme	kW	1,24
Maximale elektrische Leistungsaufnahme (FLI)	kW	1,94
Maximale Stromaufnahme (FLA)	A	8,61
VENTILATOREN		
Ventilator		1 x ø250
Ventilator Typ		AC
Umgebungstemperatur	°C	32
Ventilator Luftvolumenstrom	m³/h	2.259
Leistungsaufnahme im Betriebspunkt	kW	0,3
Maximale elektrische Leistungsaufnahme (FLI)	kW	0,3
Maximale Stromaufnahme (FLA)	A	1,8

Die oben aufgeführten Daten können Abweichungen innerhalb der Messtoleranzen von Eurovent enthalten. Wenn nicht anders beschrieben, beziehen sich alle Angaben auf ein Produkt in Standardausführung.

TECHNISCHE DATEN

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HYDRAULIK		
Flüssigkeit		Wasser
Gefrierpunkt Medium	°C	0
Maximaler Betriebsdruck		PN 10
Temperatur Kaltwassereintritt	°C	20
Temperatur Kaltwasseraustritt	°C	15
Volumenstrom	m³/h	0,8
Druckverlust	kPa	28,1
Nutzförderhöhe	kPa	308,9
Min Volumenstrom Verdampfer	m³/h	0,5
Max Volumenstrom Verdampfer	m³/h	1,3
Tank Volume	l	20
Breite x Höhe x Tiefe	mm	632 x 801 x 527
Leergewicht (4)	kg	70
Hydraulische Anschlüsse	" M Vic	UNI ISO228 2 x 1/2"gas
Schalldruck (6)	dB(A)	61,9
Schallleistungspegel (7)	dB(A)	75,6

(1) Bruttonennleistung: Der Leistungsaufnahme der Pumpen, die notwendig ist, um den Druckverluste in den Wärmetauschern zu überwinden wird nicht berücksichtigt

(2) Standardgerät ohne Optionen.

(3) gemäß DIN EN 14511:2018

(4) Die Daten beziehen sich auf ein Standardgerät ohne Behälter und Pumpen; die Daten können je nach installierten Optionen/Zubehörteilen variieren. Für die endgültigen Daten siehe Schaltplan der Maschine (liegt der Betriebsanleitung des Geräts bei).

(6) Niveau de pression sonore concernant le fonctionnement de l'unité standard sans options à pleine charge et aux conditions : fluide évaporateur 100 % eau, temp. IN/OUT = 12/7 ° C T air extérieur 35 °C. Valeur moyenne obtenue en conditions de champ libre à 1m de distance sur une surface réfléchissante plate. Valeur non contraignante obtenue par le niveau de puissance sonore selon la norme EN ISO 3744.

(7) Schallleistungspegel gemessen nach EN ISO 9614 mit einer Toleranz von ± 3 dB (A). Daten, die sich auf die Standardgerät ohne Optionen bei Vollast beziehen. Bedingungen: Verdampfer: 100% Wasser, Temp. IN / OUT = 12/7 °C Umgebungstemperatur 35°C.

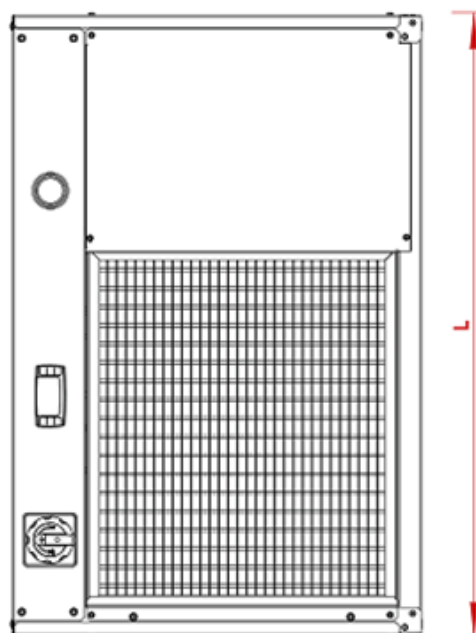
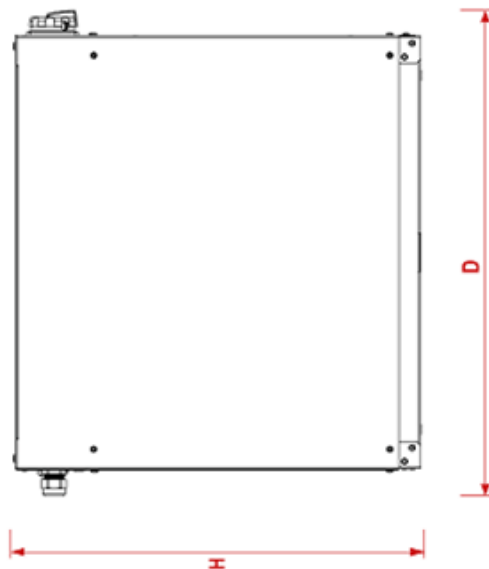
Die technischen Daten können ohne vorherige Ankündigung geändert werden

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LAYOUT

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H [mm]	L [mm]	P [mm]
801	632	527

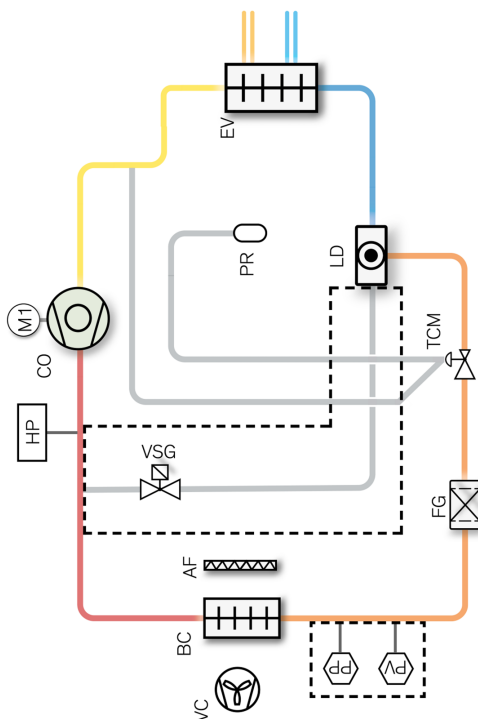


KÄLTEKREISLAUF

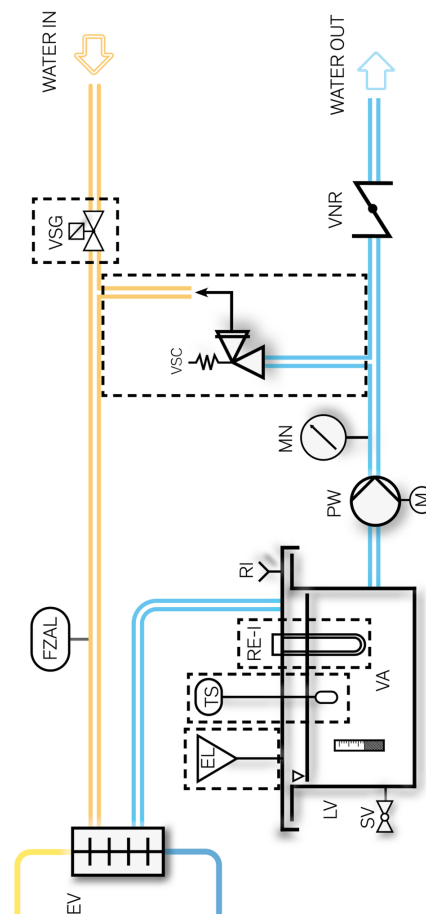
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Nomencl.	Symbol	Meaning
BC		Condenser
CO		Compressor
EV		Evaporator
FG		Refrigerant filter
FZAL		Electronic flow switch
TCM		High pressure switch
HP		Vent valve
V5G		Fan
VC		Air Filter
AF		Partialization pressure switch
PP		Fan partialization
PV		Gas filter
FG		Gas injector
LD		Probe
PR		Water inlet
IN		Water outlet
OUT		Non return valve
VNR		Fill-in cap
RI		Manometer
MN		Pump
PW		Safety valve
V5C		Tank
VA		Level viewer
LV		Max thermostat
TS		Electrical heater
RE-I		Electrical heater
EL		Refrigerant line
SV		Water line
		Optional

CIRCUITO FRIGO - REFRIGERATION CIRCUIT - KÄLTEKREISLAUFSCHEMA - CIRCUIT FRIGORIFIQUE - CIRCUITO REFRIGERANTE



CIRCUITO IDRAULICO - WATER CIRCUIT - WASSERKREISLAUF - CIRCUIT HYDRAULIQUE - CIRCUITO IDRAULICO



Kunde
Angebots-Nr.
Datum 29/09/2025



ZUBEHÖR UND PREISE

WLA10B1A200A080

Kaltwassersatz WLA10B1A200A080	
HYDRAULIK : Exchanger + Std pressure pump + Tank	enthalten
Gesamtpreis Gerät (€)	4885,00

OPTIONEN	Menge	Gerätepreis (€)	Gesamtpreis (€)
Versione per bassa T ambiente -10°C - regolaz. elettronica ventilatore	1	335,00	335,00
Gesamtpreis Optionen (€)			0,00

Gesamtpreis (€)	WLA10B1A200A080: 5220,00
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Dieses Angebot gilt für 45 Tage ab Ausstellungsdatum.