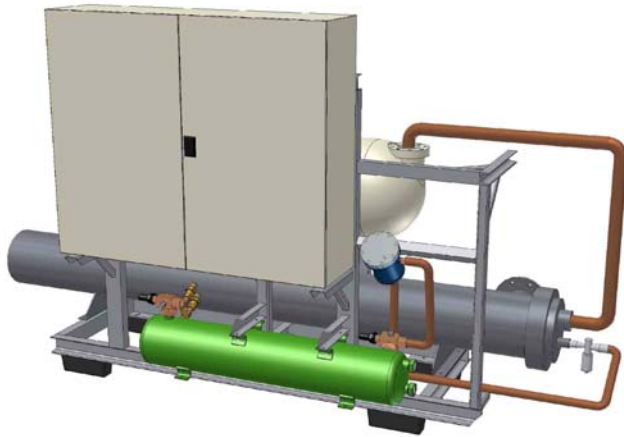
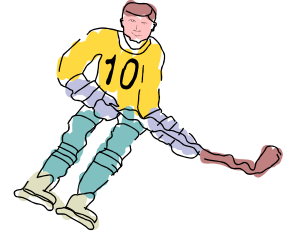


Ice-rings cooling



Applications

- Ice-rinks for public
- Training ice-rinks for goalkeepers
- Industrial applications



Features

- Minimized foot print
- Easy installation
- High reliability and endurance
- Capacity control
- Air or water cooled condenser
- Microprocessor control
- Flow switch
- For indoor applications
- Optional accessories

Standard Unit Features

- One refrigeration circuit furnished with one compressor (semihermetic screw type)
- Compressor protection against start-up cycling
- Capacity control (0, 25, 40, 70, 100%)
- Electronic expansion valve
- Fluid temperature control
- Full automatic operation with fluid freezing protection
- Automatic phase monitoring
- Compressor electric motor start-up Y/Δ
- Monitoring compressors working hours
- High and low pressure unit protection switch
- High efficient shell and tube evaporator with thermal insulation
- Electric control box with build in controller and main power switch
- CE conformity declaration

Optional Accessories

- Air cooled condenser (remote)
- Water cooled condenser (built-in)
- Receiver tank
- Electric crankcase oil heater
- Remote unit control panel
- Condenser fans speed control
- Water pump control including power supply
- Air cooled condenser with noise level reduced
- Heat recovery set
- Water accumulator tank with circulation pump



Unit command
keyboard/display



Unit control
programmable logic controller



Technical Specification

WTE-D1 series of units are designated for indoor application where minimal foot print is required. In matter to additionally reduce unit profile, electrical control box can be separated for transport. Short unit design circuiting allow to minimize refrigerant charge.

Unit can be equipped either with air or water cooled condenser. Next selection of optional accessories is available along units. Units are equipped with semihermetic screw compressors.

Model	WTE-D1						
	60	100	140	175	190	230	
Cooling Power ⁽¹⁾	kW	63	101	141	177	188	231
Liquid Temperature	°C	-9/-12					
Nominal water Flow ⁽²⁾	m ³ /h/bar	12/0.27	16.3/0.24	23.5/0.25	30.9/0.20	30.9/0.20	39.5/0.35
Power Input ⁽³⁾	kW	33.4	50.7	67.4	83.7	100	120.4
Power Supply		230/400V - 3~ - 50Hz					
Current ⁽⁴⁾	A	63.3	88.5	118.9	143.5	168.6	205.5
Hight H	mm	1800	1800	1800	1800	1800	1800
Depth B	mm	1050	1050	1050	1050	1050	1050
Width A	mm	1930	2280	2605	2805	2805	3105
Water Connection		DN 65		DN 80	DN 100		
Weight ⁽⁵⁾	kg	615	753	835	933	1020	1140
Unit noise ⁽⁶⁾	dB(A)/1m	72	73	73	74	74	75
Approx Ice-rink area ⁽⁷⁾	m ²	215	360	515	675	715	925

⁽¹⁾ Valid for glycol 35%, -9/-12°C @ +40°C condensing temperature, R407C refrigerant; capacity data for different conditions and refrigerant on request

⁽²⁾ Nominal glycol flow at -9/-12°C and corresponding pressure drop (bar)

⁽³⁾ Compressor power input at conditions ⁽¹⁾

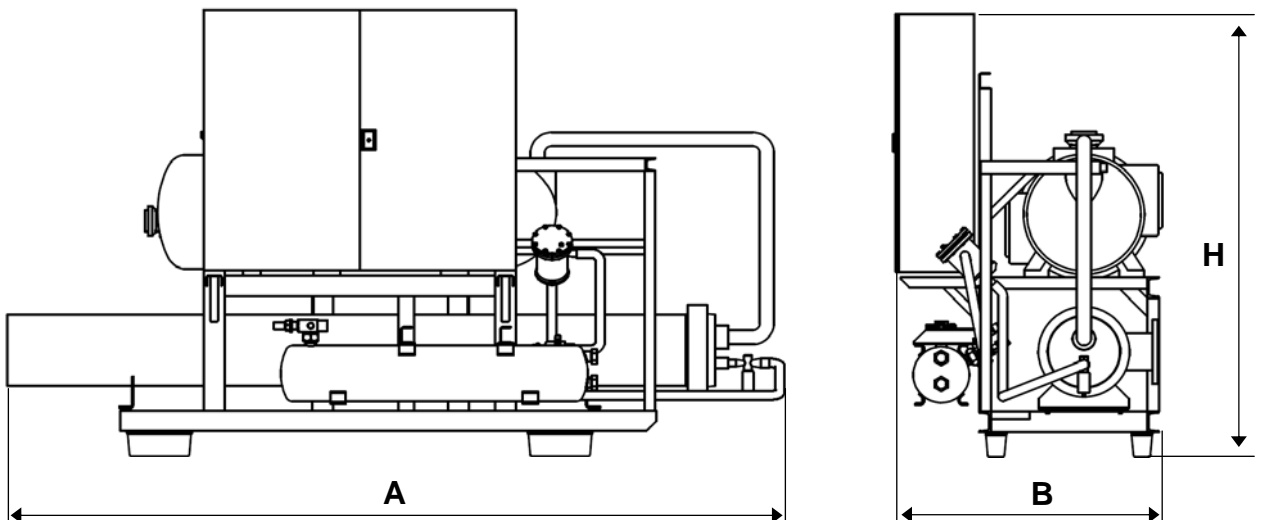
⁽⁴⁾ Compressors operation current without condenser at conditions ⁽¹⁾

⁽⁵⁾ Unit weight – without condenser, receiver and charges

⁽⁶⁾ Unit sound pressure level Lp in dB(A) (compressor only) at 1 m distance

⁽⁷⁾ Calculated based on specific ice-rink heat load in W/m²

Illustrative picture



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