

**Easy Installation – Just to Run !**



## Applications

**Cool down process water**  
**Injection molding equipments**  
**Food processing industry**  
**Chemical industry – chemical processing**  
**Industrial process equipment - oil cooling, metal processing and metal treatment**

## Features

- Minimized foot print and compact design
- Filled with refrigerant – ready to run
- Easy installation – just to connect water line
- High reliability and endurance
- Cost effective operation
- Air cooled condenser
- Integrated open accumulator tank with circulation pump
- Safety flow switch
- For outdoor applications
- Optional accessories

## Standard Unit Features

- One refrigeration circuit with scroll compressor
- Step less fan speed control
- Compressor protection against start-up cycling
- Fluid temperature control
- Build in accumulator tank with circulation pump
- Accumulator liquid level switch
- Safety flow switch
- Full automatic operation with fluid freezing protection
- High and low pressure unit protection switch
- Electric control box with build in thermostat and main power switch
- CE conformity declaration

## Optional Accessories

- Air cooled condenser (remote)
- Electric crankcase oil heater
- Remote unit control panel
- High pressure water supply pump kit
- Closed (pressure) accumulator tank



Unit controller



Closed accumulator tank



## Technical Specification

Series of compact WDE units are designated for indoor/outdoor applications. Chilled liquid is cooled down in build in accumulator. Liquid is circulated from accumulator tank through heat exchanger (evaporator) back to accumulator tank. On/Off run of cooling compressor is controlled by desired liquid temperature. Unit is filled by refrigerant at manufacturer.

Optimized unit circuiting design allowed to minimize refrigerant charge. Correct unit operation is tested before expedition. For unit installation only electrical power connection and water line connection are required. No refrigeration mechanics are needed. Next selection of optional accessories are available along units.

Model	WDE-S1K							
	5	8.5	12	16	20	30	41	
Cooling Power <sup>(1)</sup>	kW	5	8.6	12.1	16.7	20.7	30.9	43.3
Liquid Temperature <sup>(1)</sup>	°C	+15/+10	+18/+15	+20/+15	+20/+15	+20/+13	+20/+15	+16/10
Nominal water Flow	m <sup>3</sup> /h	0.9	2.5	2.2	2.9	2.6	5.3	6.3
Power Input <sup>(2)</sup>	kW	1.8	2.2	3.1	4.5	5.8	7.7	12.9
Power Supply		230/400V - 3 <sup>-</sup> - 50Hz						
Current <sup>(3)</sup>	A	4.4	6.1	7.6	10.6	11.7	15.7	27.1
Hight H <sup>(4)</sup>	mm	1500	1500	1500	1500	1500	2000	2000
Depth B	mm	600	600	600	600	600	600	600
Width A	mm	1100	1300	1300	1500	1500	2200	2200
Water Connection		G 3/4"	G 1"	G 1"	G 1"	G 1"	G 6/4"	G 6/4"
Weight <sup>(5)</sup>	kg	110	140	150	175	180	250	295
Unit noise <sup>(6)</sup>	dB(A)/10m	41	42	42	48.5	49	55	55.5

<sup>(1)</sup> Valid for water IN/OUT temperature at ambient temperature +27°C with R407C refrigerant. Capacity data for different conditions and refrigerant on request

<sup>(2)</sup> Unit power input at conditions <sup>(1)</sup>

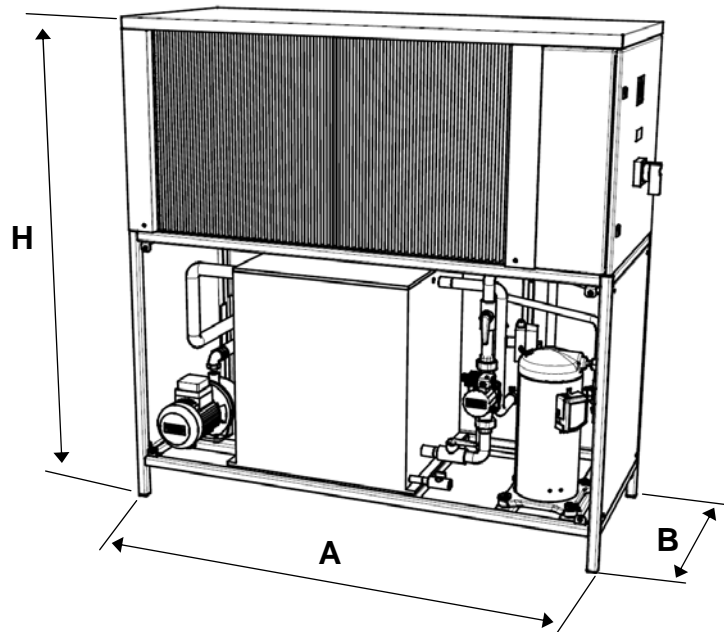
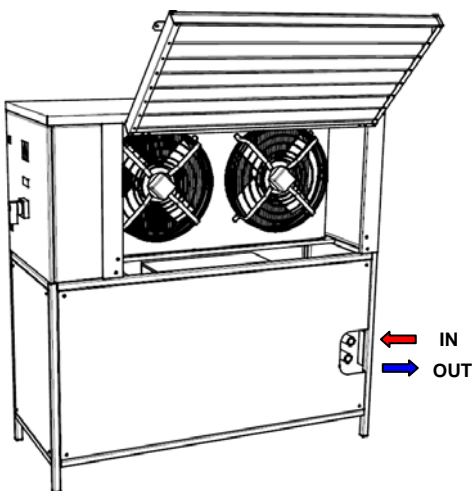
<sup>(3)</sup> Unit operation current at conditions <sup>(1)</sup> without high pressure secondary pump kit

<sup>(4)</sup> Unit height with one build in high pressure secondary pump. For more build in pumps add 400mm.

<sup>(5)</sup> Unit weight – without charges

<sup>(6)</sup> Unit sound pressure level Lp (dB (A)) at 10 m distance

Illustrative picture



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