

# Cooling unit LWH 18

## Technical data

A LWH is a compressor chiller that produces cooling water for a wide range of industrial applications. Each unit is equipped with a heat exchanger, an atmospheric open water tank and a corresponding pump.

The waste heat generated during the cooling process is discharged to the ambient air.

The case is self-supporting and coated according to the specification.

Outdoor installation with winter start-up device or other options can be ordered as accessories.

### Technical data

Refrigerant	R 410a
Cooling capacity at 32 °C ambient temperature	16,6 18,3 kW
with a water flow of	+15 +20 °C
Switch hysteresis	+/- 1 K
Ambient temperature	+10 bis +42 °C
Water set point	+ 13,5 bis + 35 °C
Pump power	2,9 m <sup>3</sup> /h
Pump prepressure	3,0 bar
Air performance	5.200 m <sup>3</sup> /h
Maximum ambient temperature	42 °C
Maximum power connection	7,3 kW
Maximum power consumption	14,0 A
Power type	400 V, 50 Hz, 3Ph, PE
Water connections	¾"
Tank capacity	120 l
Weight	200 kg
Dimensions L x B x H	715 x 715 x 1.554 mm
Sound pressure level at a distance of 1m	66 dB(A)



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### Covering

- Powder coated RAL7021
- removable on two sides
- Air inlet from the right
- Hot air outlet upwards

### Refrigeration circuit

- Completely hermetic, with all necessary fittings such as service ports, connections for external high and low pressure gauges.
- energy-saving scroll refrigeration compressor
- Stainless steel evaporator in water tank
- Air-cooled condenser with power-controlled fan
- thermostatic expansion valve, receiver, filter drier, high and low pressure switch, sight glass with humidity indicator.
- Suction gas line insulated diffusion-tight
- Oil and refrigerant service charge

### Water circuit

- Water tank made of PE, removable tank lid
- Pressure gauge in water supply, tank drain
- Cold water pump, dry running protection for the pump
- optical fill level indicator
- adjustable overflow valve
- Internally completely piped
- External water connections with anti-rotation device

### Electrical control panel

- in completely enclosed, dust-tight design
- completely wired with all switching, control and monitoring devices
- Safety chain with high and low pressure switches and motor protection switches
- Adjustable electronic digital thermostat for complete electrical control
- Collective fault signal, potential free
- Remote On/Off
- Power controlled condensing fan

### Accessories for cooling unit type LWH:

- |                                  |   |
|----------------------------------|---|
| 1. water cooled condenser        | 7. hot gas bypass control for increased temperature constancy (+/-0.1K)         |
| 2. 2x forward / return flow      | 8. insulation of all water-carrying parts                                       |
| 3. Flow monitors                 | 9. 4,5 kW Heater rod incl. control unit   |
| 4. signal message water shortage | 10. winter start direction for fan  |
| 5. mobile version                | 11. free outdoor installation with winter start device sheets VA and insulation |
| 6. control voltage in 24V DC     |   |