

OL air-cooled oil coolers new version 2015

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OL air-cooled oilcoolers - 2015

3 models

/ **OL200** – 1 fan – 10,4 kW*

/ **OL300** – 1 fan – 14,1 kW*

/ **OL600** – 2 fans – 26,3 kW*

/ Design pressure: 28 bar

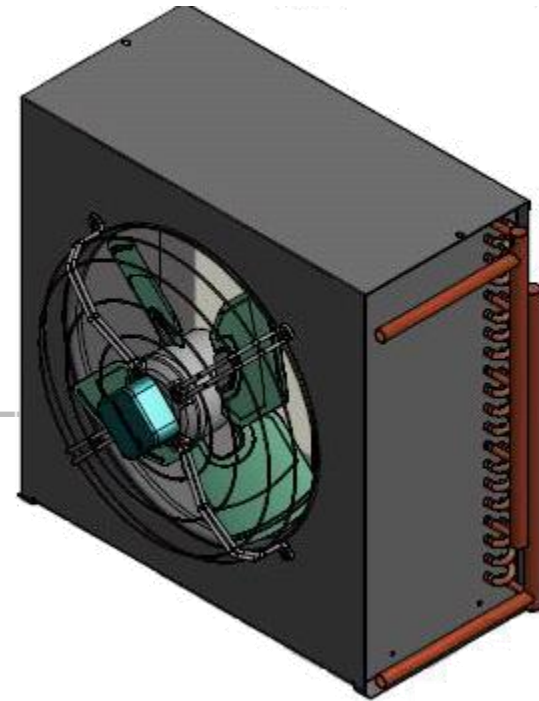
/ Test pressure: 31 bar

/ Design temperatures: -10 / +120°C

/ Coil: copper exchange tubes (12x0,4 mm); aluminum corrugated fins

/ State of delivery: heat exchanger pressurized with inert gas (0,2-0,5 bar)

/ Casing in galvanised steel

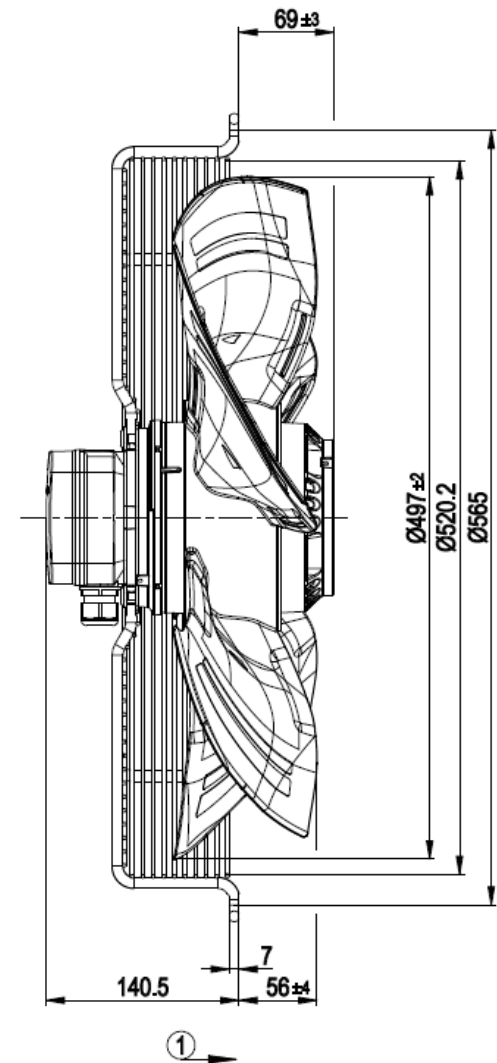


* Nominal capacity with 80°C oil inlet temperature and 36°C air inlet temperature

The fan

Only 1 fan model

- / Size of the fan: 500 mm
- / Type of motor: Three Phase Asynchronous
- / Possible voltage range: Δ/Y 230/400V $\pm 10\%$ (50/60Hz), 480V $\pm 10\%$ (60Hz)
- / Speed: 1080 to 1520 min^{-1}
- / Winding protection: thermostatic switch
- / Enclosure class: IP54



What's new on the 2015 version

New higher performance fans (up to 16% more air flow rate)

New fan housing to fulfill the Ecodesign Directive targets

Conformity to Ecodesign 2015 requirement for Industrial Fans*

Data according to ErP Directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es} / %	33.4	28.6	32.6
Efficiency grade N	40.8	36	40
Power input P_e / kW	0.67		
Air flow q_v / m ³ /h	5950		
Pressure increase total p_{sf} / Pa	137		
Speed n / min ⁻¹	1355		

Data definition with optimum efficiency.

The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

* Commission Regulation (EU) N°327/2011 of 30 March 2011 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to Ecodesign requirements for fans driven by motors with an electric input power between 125 W and 500 kW

Selection

[1] BITZER Software v6.4.4 rev1462

Project Mode Options Window

Germany English SI

Semi-hermetic Screw Compressors HS

Series: all
Refrigerant: R404A
Reference temperature: Dew point temp.

Compressor selection

Cooling capacity: 100
 Compressor model: HSN5363-30

Operating point

Evaporating SST: -40 °C
 Condensing SDT: 45 °C

Operating conditions

with Economiser
 Liq. subc. (in condenser): 0 K
 Suct. gas superheat: 10 K
 Useful superheat: 100 %
 Additional cooling: Automatic
 Max. discharge gas temp.: Auto

Power supply

Power frequency: 50Hz
 Power voltage: 400V-Pw (40P)

<input checked="" type="checkbox"/> Oil cooler, air cooled	HSN5363-30	Auto	OL300	✓
<input checked="" type="checkbox"/> Common				
Ambient temp.	32	°C		
Operating point	Auto			
<input checked="" type="checkbox"/> Oil separator	HSN5363-30	Auto	OA1954	✓
<input checked="" type="checkbox"/> Common				
Operating point	Auto			

Result Technical Data Dimensions Information Documentation

Compressor:	(all)
Recommendation:	OL300
Selection	OL300
Recommended operating point:	A
Selected operating point:	A
Number	1
Oil cooler capacity	14.9 kW
Oil cooler load	81.3 %
Max. oil volume flow	4.4 m³/h
Oil volume flow load	25.1 %

Selection can be operated in the Bitzer selection software starting from Semi-hermetic screw compressors

Ordering information

Unit item numbers

/ **OL200** – part number 35310004

/ **OL300** – part number 35310104

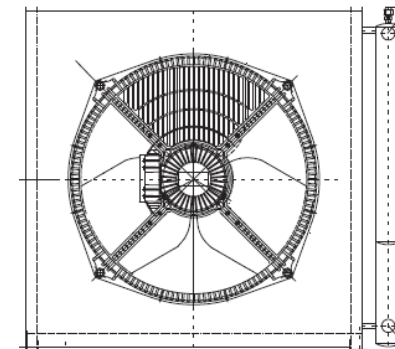
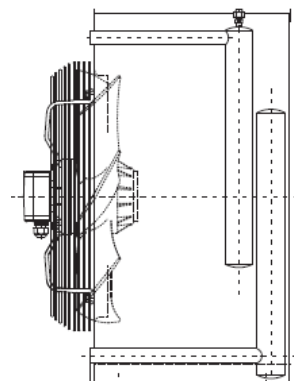
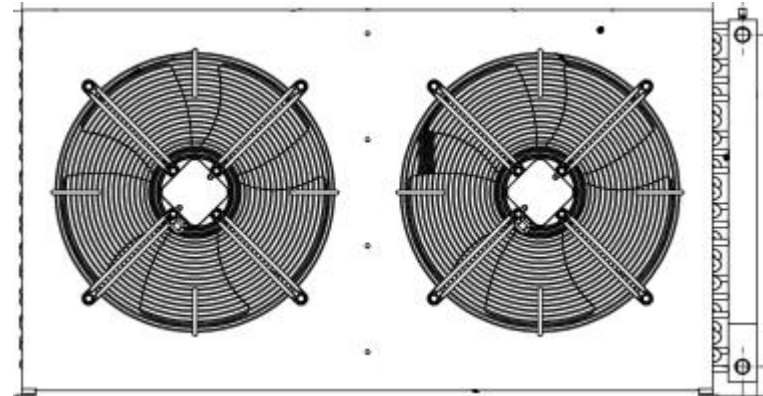
/ **OL600** – part number 35310404

1 fan model

/ Part number 34301604

The new fan is compatible with the previous one!

External dimensions unchanged if compared with the previous version





THE HEART OF FRESHNESS