IGLOO
MORE THAN COOLING

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CE


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INDUSTRIAL AIR DRYER OP-130

OP-130 INDUSTRIAL AIR DRYER

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OP 130 air dryers from IGLOO are highly efficient, professional compact devices used to remove vapour and dry the indoor air which feature high operational effciency reaching 97% which makes tham a class of their own and makes IGLOO the leader in innovative indoor air drying systems.

Technical data sheet OP130

Model	OP-130
Application	Construction/industry
Drying space capacity	up to 1000 m^3
Dryer type	Condensation, unattended operation
Rated capacity dm^3/24h	100
Maximum capacity dm^3/24h	130
Air flow [m^3/h]	3000
Electric power [W]	1700
Power supply	230V, 50hz
Refrigerant JN [A]	7,3
Operating temperature range [°C]	2-40
Rh range	30% - 100%
Automatic overflow switch	Yes
Water tank[dm^3]	15
Option to connect water drain hose	Yes
Noise level [dBA]	65
Net weight [kg]	65
Enclosure	Metal
Wheels	Fi 160,
Handle	Yes
Continuous operation	Yes
Control	Reliable, manual
Compressor type	Rotary blade
Refrigerant	Ekology R410A
Fan motor	In closed housing
Fan type	Professional axial
De-icing	Smart, hot gas
Filter	Durable, not needing replacement, easy to clean
Exchanger type	Cu/Al lamellar
Tank full signalling	Yes
Power cable handle	Yes
Water flooding resistance	Up to 20 cm
Additional options (surcharge):	
Hygrostat	
Operating hours counter	
Electric power meter	
Additional heaters (for unheated rooms) - Note! Required 230/400 V power supply.	

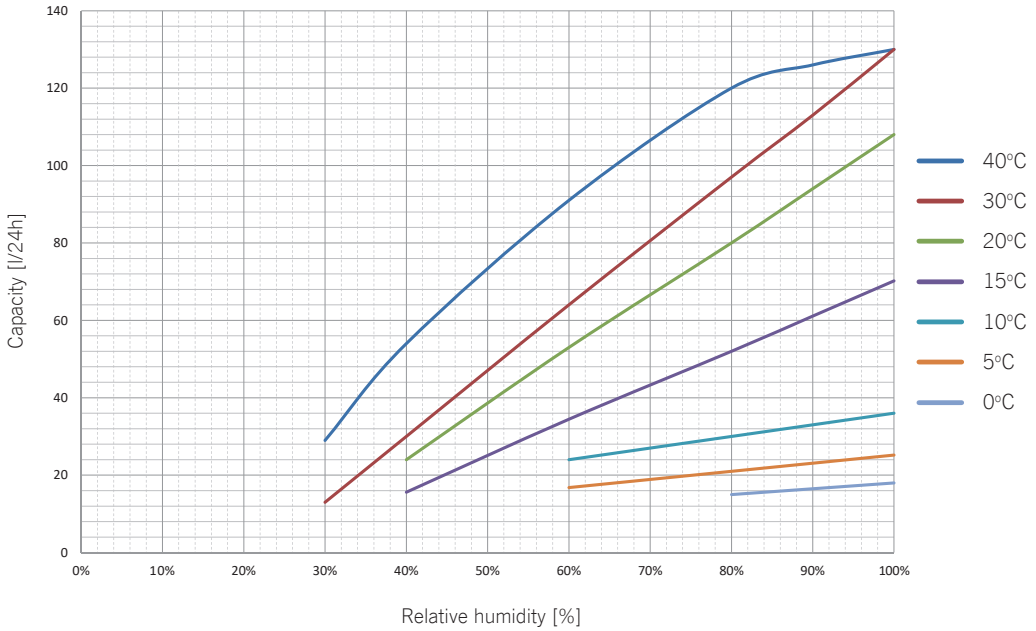
Practical 15-litre pail with handle

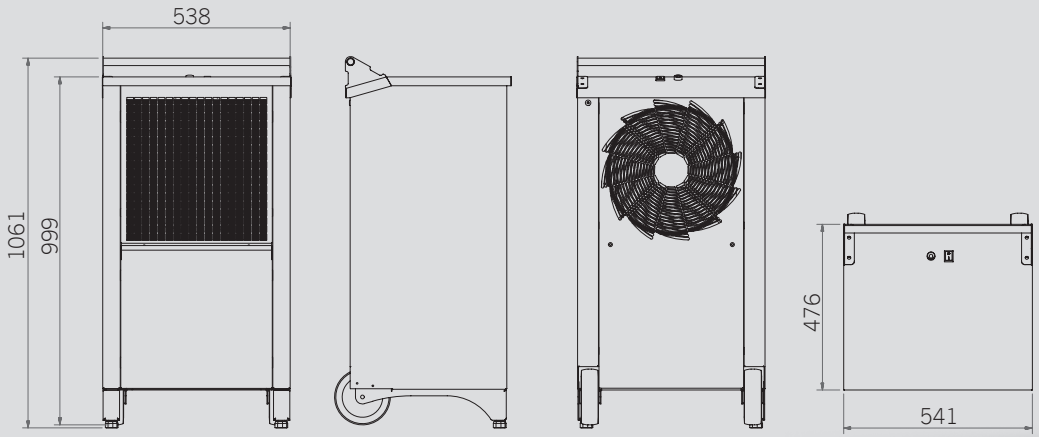
No need to replace the filter. Just flush it with water.

Penetration for condensate hose

Connect the condensate removal hose - ½'' thread

OP-100 dryer performance curves





The industrial air dryers feature innovative smart anti-icing control technologies that allow operation in extreme temperatures from +2oC to +40oC which puts them on top of the list of such products. The smart anti-icing control technology was developed to detect the exchanger icing only when it is necessary for correct dryer operation which, contrary to traditional solutions, significantly reduces the power consumption and increases the drying efficient at low temperatures.

The vapour removed from the air is stored in a condensate tank located in the bottom part of the dryer or removed outdoors or to the sewers by means of a rubber hose. The OP dryers are also adapted to operation in difficult dusty conditions and are equipped with highly-efficient, durable and easy to clean polyurethane filters that do not need replacement. Robust design and top quality subassemblies coupled with easy operation allow trouble-free, ergonomic operation and long life. Current operation does not require qualified personnel.

Typical use of air dryers :

- Removing the effects of flooding.
- Protecting the rooms against mould and fungi.
- Drying the products in warehouses. Chocolate, tobacco, feed, seeds, paper and others.
- Indoor climate control.
- Drying rooms, shops, buildings.
- Drying basements and utility buildings.
- Drying walls, plasters, screed, paint coats.
- Drying museums, libraries, archives and warehouses.
- Climate control in churches, temples, etc.
- Drying in swimming pools.
- Maintaining humidity during production processes.

The operating principle of OP air dryers involves vapour condensation by artificially reducing the vapour partial pressure in the flowing air stream to below the vapour saturation point at a given temperature. The result of such pressure change is vapour condensation on the cooler lamella surface and the condensate removal to a water tank. The dried air is removed from the air by the fan. Artificial reduction of the vapour partial pressure results in equalizing the partial pressure between the elements of the room (air, walls, plasters, other wet surfaces and materials) and the exchanger inside the dryer which pumps out the humidity from the surrounding space and sucks it into the dryer. The process is extremely efficient and allows a quick drying of closed spaces.

To demanding customers we offer an optional winter mode allowing an effective drying of unheated rooms in winter at subfreezing outdoor temperatures even down to -25°C, depending on the space capacity of the room to be dried.