

NOVABLAST

ECO-FRIENDLY
AIR COOLED
DEHUMIDIFIER



NOVABLAST BV.
NIJVERHEIDSSTRAAT 25N
3861 RJ NIJKERK
THE NETHERLANDS



INFO@NOVABLAST.COM
WWW.NOVABLAST.COM
+31 85 444 48 90



ECO-FRIENDLY AIR COOLED DEHUMIDIFIERS

- Special for shipbuilding, marine offshor & oil tank of blast paint application
- Used in the area of tropical and subtropical regions like southeast asia
- r134a/r407c refrigerant instead of r22, no harmful to ozonosphere.



The quality and useful life of anti-corrosion painting is determined by several factors, pre-treatment and protection of treated surfaces against moisture are the most important factors. surfaces that have been blasted are completely unprotected against corrosion and must not be subjected to excessive humidity or to the risk of condensation. the rate of corrosion is high above a certain value of the relative humidity – the critical humidity. below the critical humidity the corrosion rate is negligible. the critical humidity is about 60%, but it should not exceed 50% in practical situations. in practice, it has been found that dehumidification is a crucial factor for anti-corrosion painting. the cost of dehumidification is only approximately 4% of the total treatment cost of corrosion preventive painting of a ship's tanks. moreover, de-humidification is often a pre-requisite for the correct execution of anti-corrosion painting. this is especially crucial in the painting of blasted surface of a ship's tanks.



ECO-FRIENDLY AIR COOLED DEHUMIDIFIER FOR

The eco-friendly air-cooled dehumidifiers are used for drying air of up to 95% relative humidity (rh) with temperatures from +15°C to +40°C. It is widely used in the area of Southeast Asia, South America with tropical and subtropical climate. The eco-friendly dehumidifier adopts R134a / R407c as refrigerant. Compared with R22 Freon, R134a / R407c is no harmful to the ozoneosphere. The applications are numerous and wide spread. Below are some examples:

- ▣ Surface treatment during internal blasting and painting of tanks
- ▣ Shipping industry, both for permanent and temporary applications
- ▣ Controlling humidity levels in production processes
- ▣ Protection of equipment sensitive to corrosion
- ▣ Climatic improvements in damp areas

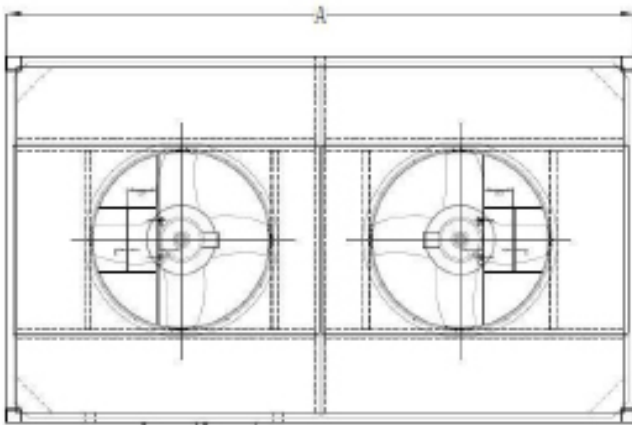
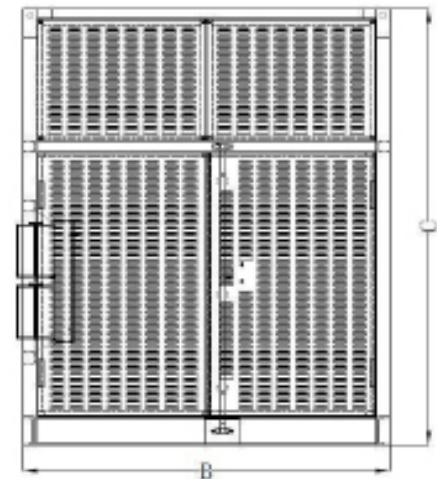
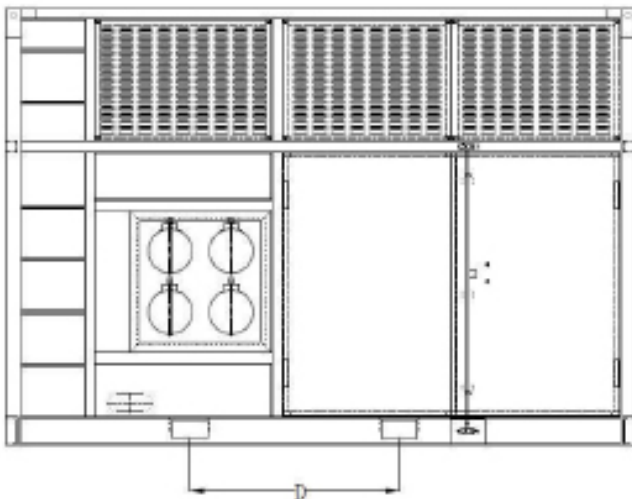
eco-friendly air cooled dehumidifier is delivered as a complete unit with fans, filters, condenser, evaporator, compressor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting. Each dehumidifier will be custom designed according to the local conditions and the needs of the customer. The eco-friendly air cooled dehumidifier adopts R134a / R407c as refrigerant instead of R22, which is of no harmful to ozone layers. It meets the environmental protection requirements from developed countries.

MODEL	KL-LFZ6000EF	KL-LFZ9000EF	KL-LFZ12000EF	KL-LFZ18000EF	KL-LFZ24000EF
PROCESS AIRFLOW (M ³ /HR)	6000	9000	12000	18000	24000
COMPRESSOR POWER (KW)	38	45	60	90	60×2
PROCESS AIR FAN (KW)	7.5	11	15	22	30
REHEATING POWER (KW)	27	36	45	80	90
OUTLET CONNECTION (MM)	Φ250×2	Φ250×3	Φ250×4	Φ250×6	Φ300×6
TOTAL POWER (KW)	76.9	100	131	214	260
EQUIPMENT SIZE (MM)	3400×2000 ×2450	3600×2050 ×2500	3800×2100 ×2550	4800×2200 × 2800	5800×2200 ×3200
WEIGHT (T)	3.2	3.5	3.8	4.5	6
REFRIGERANT	R134A / R407C, NO HARMFUL TO OZONOSPHERE				
MACHINE STRUCTURE	MOVABLE CONTAINERIZED				
TEMPERATURE CONTROL	HIGH SENSITIVE TEMPERATURE SENSOR + PLC CONTROL + TOUCH SCREEN DISPLAY				
CONDENSER	COPPER TUBE + ALUMINUM FINS WITH GALVANIZED CASING				
EVAPORATOR	COPPER TUBE + ALUMINUM FINS WITH GALVANIZED CASING OR COPPER TUBE + COPPER FINS WITH STAINLESS STEEL CASING				
AIR INTAKE CONDITION	TEMPERATURE: 15~40°C , RH≤95%				
AIR DISCHARGE CONDITION	TEMPERATURE: 25±3°C , RH≤45%				
AIR DISCHARGE PRESSURE	≥ 2000~2500PA				
ELECTRICAL CONTROL	100% REFRIGERATION + 100% HEATING				

note (all models):

1. power supply: 3-phase plus earth 380v/ 415v / 50 hz
2. refrigerant: r134a / r407c, no harmful to ozonosphere.
3. cooling step control: 25%~50%~75%~100%
4. cooling media: air
5. discharge condition: 25 ± 3 °c/rh below 45%
6. we have the policy to improve our equipment continuously & shall reserve the rights to change the dimensions and specs without prior notice.

MODEL	KL-LFZ6000EF	KL-LFZ9000EF	KL-LFZ12000EF	KL-LFZ18000EF	KL-LFZ24000EF
LENGTH A (MM)	3400	3600	3800	4400	5500
WIDTH B (MM)	2000	2050	2100	2200	2200
HEIGHT C (MM)	2450	2500	2550	2550	2800
FORKLIFT D (MM)	1400	1400	1400	1400	1400








PORTABLE AIR COOLER FOR SHIPYARD & DRYDOCKS

Portable air cooler is engineered specially for operation in equatorial and tropical climate conditions or in summer of temperate regions. It is used to supply cooled air during welding, grinding and scaffolding in vessel tanks or forced ventilation. The portable air cooler is a special equipment which meets the requirements of temperature reduction and provides comfortable working conditions for workers in shipyard, drydocks etc. The unit comes complete with a specially designed control panel and can be easily transported by cranes or forklift.

The system has the following usages:

-  To reduce temperature of a chamber as to satisfy
-  An effective ventilation method to reduce toxic/hazardous gas for prevention of accident occurrences.
-  Its cooling effect improves working environment, and enhances working productivity.

MODEL	KL-VC-37
ELECTRICAL POWER	380V/415V/440V, 50HZ/60HZ, 3PH
ELECTRICAL MOTOR IP55, CLASS F	37KW, STAR DELTA
AIR FLOW	22.7M3/MIN @-4000Ag
MAX VACUUM DEGREE	-0.0667MPA OVER VACUUM PROTECTION BY VACUUM RELIEF VALVE
VACUUM PUMP	KFM KOREA ANLET JAPAN
DUST COLLECTOR	PLC CONTROL PULSE JET CLEAN TYPE DUST COLLECTOR PERIODICAL AIR REVERSE JET
COMPRESSED AIR	0.6~0.8MPA, 1.0M3/MIN
DUST EMISSION DENSITY	≤15MG/M3
ELECTRICAL CONTROL	SCHNEIDER & MITSUBISHI PLC, IP54 PROTECTION: PHASE STAGE OVER & LOW VOLTAGE OVERLOADING WRONG PHASE DUST LEVEL ETC.
NOISE LEVEL	≤85DB(A) @ RADIUS 5M
EQUIPMENT SIZE	2.5×2.2×2.0 M
DUST HOSE SIZE	2"×30M / 5 PCS
DUST CLEANING DISTANCE	VERTICAL + HORIZONTAL ≥60M
STANDARD SUPPLY SCOPE	INDUSTRIAL VACUUM CLEANER, 1 UNIT
OPTIONAL	DUST HOSE 2" FLOOR SUCTION TOOL