

Air-Cooled Dehumidifier

(ADH 12000)



The quality and useful life of anti-corrosion painting is determined by several factors, and the 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, dehumidification is often a pre-requisite for the correct execution of anti-corrosion painting. This is especially crucial in the painting of blasted surfaces of a ship's tanks.

SPEEDO dehumidifier is engineered specially for internal tank blasting and coating operations in equatorial and tropical climate conditions. The unit also comes complete with a specially designed control panel and can be easily transported by crane or forklift.

ADH 12000

Model No:	ADH 12000-A
Airflow Capacity	12000 CMH
Cooling Media	Air Cool
Work Method	100% Refrigeration / 100% Condensation / 100% Heater
Refrigerant	R22
Inlet Air Temperature	20 to 40 (\pm 5) Deg C
Discharge Air Temp & Relative Humidity	25 (\pm 5) Deg C
	45% and below
Dew Point	10 Deg C
Evaporator Coil	Copper tube / Copper fin with stainless steel casing
Condenser Coil	Copper tube / Aluminium fin with stainless steel casing
Control Panel	Traditional Relay Control (IP55 Enclosure)
Compressor Capacity	45 KW (60 HP)
Condensor Motor	2 x 4 kw
Blower Motor	15 kw
Electric Heater	27 kw
Total Power Consumption	95 kw
Power Supply	380 - 415 V / 50 Hz / 3 phase
Machine Structure	Containerized
Outlet Connection	4 x Φ 280mm
External Dimension	3600 x 2100 x 2500 mm (LxWxH)
Weight	4.3 ton

Note: The manufacturer reserves the right to make changes in technical and product specification without prior notice.