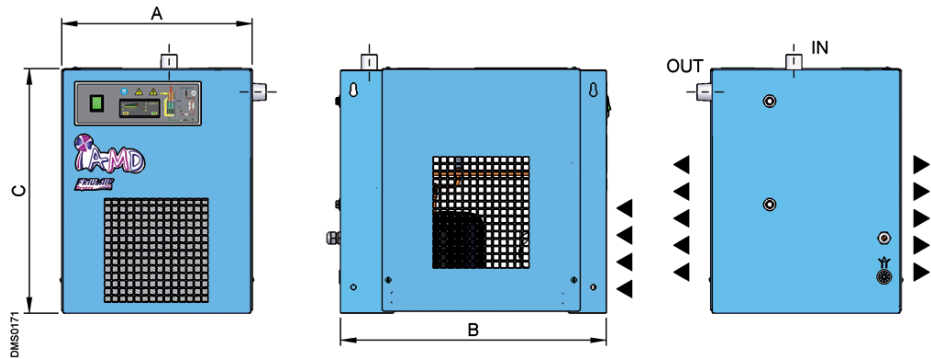


TECHNICAL FEATURES

Data refer to the following nominal condition: Ambient temperature of 25°C, with inlet air at 7barg and 35°C and 5°C pressure Dew Point (-20.5°C atmospheric pressure Dew Point). Max. working condition: Ambient temperature 45°C, inlet air temperature 55°C and inlet air pressure 14barg (16barg for AMD 3...18).



Model	Compressor Combination	Flow-Rate			Pressure Drop	Connections	Power Supply	Dimensions [mm]			Weight
		[l/min]	[m³/h]	[scfm]				A	B	C	
AMD 3	3kW - 4HP	350	21	12	0.15	G 3/8" BSP-F	1/230/50-60	310	345	435	21
AMD 6	4kW - 5,5HP	600	36	21	0.04	G 1/2" BSP-F	1/230/50-60	370	515	475	25
AMD 9	5,5kW - 7,5HP	950	57	34	0.09	G 1/2" BSP-F	1/230/50-60	370	515	475	26
AMD 12	11kW - 15HP	1.200	72	42	0.14	G 1/2" BSP-F	1/230/50-60	370	515	475	28
AMD 18	15kW - 20HP	1.800	108	64	0.32	G 1/2" BSP-F	1/230/50-60	370	515	475	32
AMD 25	18,5kW - 25HP	2.500	150	88	0.24	G 1" BSP-F	1/230/50-60	345	420	740	34
AMD 32	22kW - 30HP	3.200	192	113	0.16	G 1.1/4" BSP-F	1/230/50	345	445	740	39
AMD 43	22*kW - 30*HP	4.300	258	152	0.24	G 1.1/4" BSP-F	1/230/50	345	445	740	40
AMD 52	3kW - 4HP	5.200	312	184	0.34	G 1.1/4" BSP-F	1/230/50	485	455	825	49
AMD 61	30kW - 40HP	6.100	366	216	0.19	G 1.1/2" BSP-F	1/230/50	555	580	885	54
AMD 75	37kW - 50HP	7.500	450	265	0.25	G 1.1/2" BSP-F	1/230/50	555	580	885	56
AMD 105	55kW - 75HP	10.500	630	371	0.14	G 2" BSP-F	1/230/50	555	625	975	94
AMD 130	55*kW - 75*HP	13.000	780	459	0.20	G 2" BSP-F	1/230/50	555	625	975	96
AMD 168	90kW - 120HP	16.800	1.080	594	0.15	G 2.1/2" BSP-F	1/230/50	665	725	1.105	144
AMD 190	90*kW - 120*HP	19.000	1.140	671	0.21	G 2.1/2" BSP-F	3/400/50	646	920	1.100	189
AMD 220	110kW - 120HP	22.000	1.320	777	0.28	G 2.1/2" BSP-F	3/400/50	645	920	1.100	212

On request models AMD 32...220 with 60HZ power supply.

CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES:									
Inlet air pressure	barg	4	5	6	7	8	10	12	14
Factor		0.77	0.86	0.93	1.00	1.05	1.14	1.21	1.27

CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES:						
Ambient temperature	°C	≤ 25	30	35	40	45
Factor		1.09	0.95	0.88	0.79	0.68

CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES:							
Inlet air temperature	°C	≤ 30	35	40	45	50	55
Factor		1.11	1.00	0.81	0.67	0.55	0.45

CORRECTION FACTOR FOR DEW POINT CHANGES:					
Dew Point	°C	3	5	7	10
Factor		0.91	1.00	1.10	1.26

"Friulair S.r.l reserves the right to make technical changes without prior notice, errors and omissions excepted"

AMD  
Dryer Series





# REFRIGERATED AIR DRYERS - "FOUR-LEAF CLOVER" SERIES

AMD dryers (Aluminium Modular Dryer) are represented by a four-leaf clover which symbolises good luck, wealth and of reaching a point of evolution. The planning and design of this dryer range were not carried out in the conventional way but all inalienable requirements were listed and then satisfied. The "four clover leaves" that form the AMD dryers are a combination of applying technical solutions to original designs supported by extensive laboratory testing and achieving the goal of innovative development.

The AMD series has been designed and built to expedite inspection and maintenance operations. The easily removed panels offer immediate access to the operating components of the unit. The cleaning of the solenoid drain valve does not require the usage of service tools thanks to the quick "bayonet" valve stem and the innovative coil clamp.



## 1 - PERFORMANCE

AMD dryers achieve excellent performance even in instances of high ambient and high inlet temperatures. The highly efficient and ultra compact heat exchanger is able to operate effectively in ambient temperatures up to 45°C and inlet temperatures of 55°C, ensuring a reduced compressed air pressure drop.



## 2 - ECONOMICITA'

AMD dryers are sized to match standard compressor outputs. E.g. a 15 kW (20 HP) air compressor with theoretical output of 2400 l/min at 7 bar matches the AMD 25 rated at 2500 l/min. It is therefore unnecessary to select a larger model: air compressor - dryer combination is tested and certified by FRIULAIR, within operating limits shown on technical features.



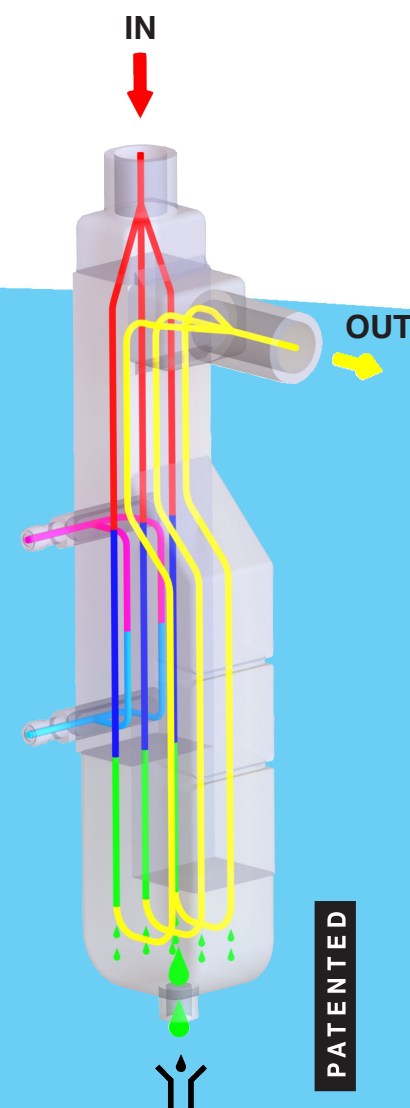
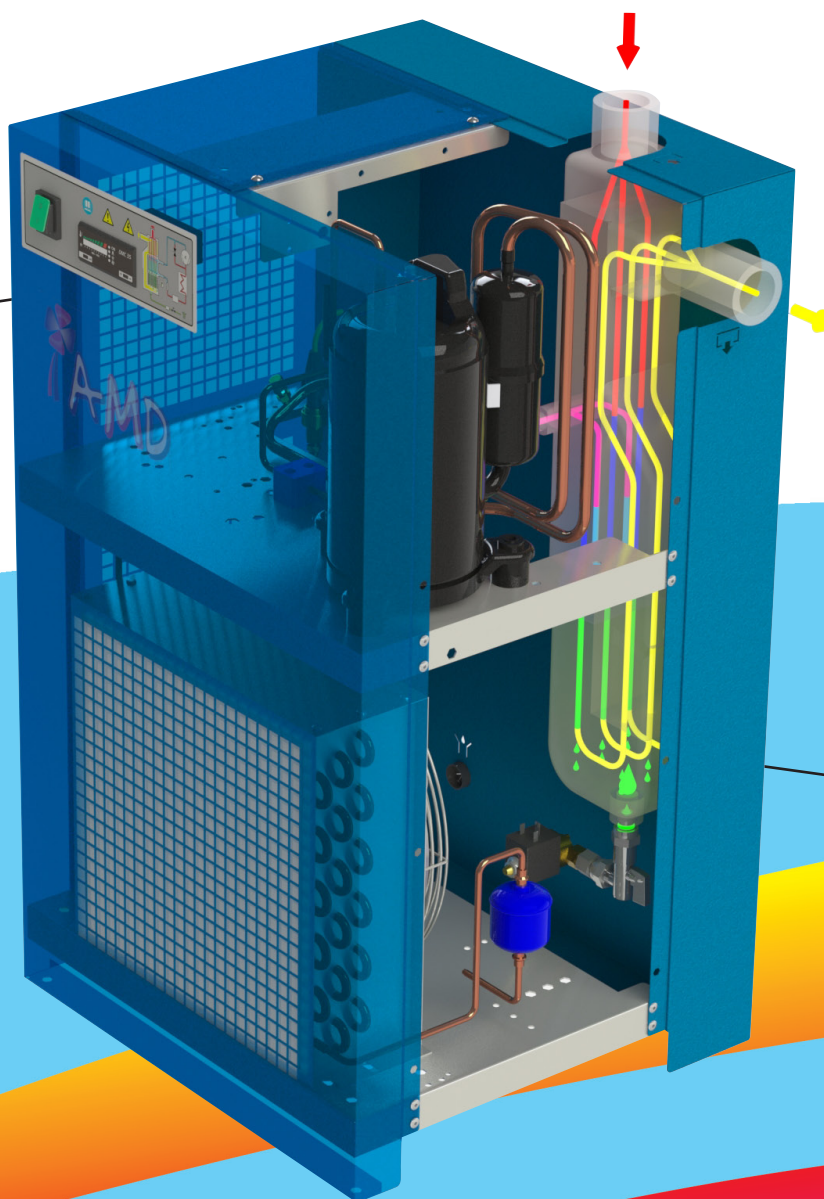
## 3- FUNCTIONALITY

Operation of the AMD dryer is monitored by DMC35 electronic controller which indicates the DewPoint temperature, the dryer total operating hours, controls the condensate drain valve via a timer, with a probe measures the condensing temperature or pressure and controls the condenser fan. A hot gas by-pass valve allows the dryer to operate at part load and prevent the evaporator from freezing. The ALU-DRY aluminium Module has a vertical flow layout ensuring the wet compressed air flows down to the automatic drain. The circulation of the refrigerant in the system is by high efficiency piston and rotary refrigerant compressors which, thanks to their innovative construction, have reduced energy consumption and high reliability levels.



## 4- ECOLOGY

All materials used in the construction of AMD dryers have a high recycling factor and in compliance with the FRIULAIR environmental policy, only environmentally friendly refrigerants are used. Components conform with 2011/65/EU "RoHS2" (Restriction of Hazardous Substances) and 2012/19/EU "WEEE" (Waste Electrical and Electronic Equipment) European Directives.



PATENTED



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