



## > Refrigeration dryer is the most worldwide used

- Cost-effective technology
- Low pressure loss
- Intelligent control
- Reliable system



บริษัท นิวแม็ค จำกัด | แพนค AIR COMPRESSOR

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[www.pneumax.co.th](http://www.pneumax.co.th)

## We are make a dry air

Our air dryer plant was established in 1989 in Italy and in just over 10 years became a leading international company in the production of dryers, filters, aftercoolers and accessories for the treatment of compressed air.

Quality, versatility, respect for the environment and reliability are the characteristics of all our products. The wealth of experience found in company departments, and strict intermediate/final inspections carried out with the most advanced equipment, are the company's distinguishing features.

Our designs, develops and sells a wide range of products for the treatment of compressed air and industrial refrigeration with professionalism and commitment.



### Research & Development

The test workshop in the compressed air department was recently modernised and extended, whereas the test workshop in the water treatment department is brand new.

The dryers for compressed air and the water coolers are tested in the workshops under actual design conditions.

It is also possible to test the machines under extreme operating conditions, adjusting capacities, pressure, and fluid inlet temperature in addition to ambient temperature.

Dedicated software and new instrumentation created ad hoc enable automatic data acquisition 24 hours a day, meeting the most demanding technical requirements.

## Quality

### Certifications & Environmental

To supply a high quality product with outstanding reliability is a major objective of us.

At our technical staff ensure that quality standards are maintained and new technologies developed to be applied to our products.

Every day we provide our clients with a modern laboratory and innovative programs for design and planning.

The technical and management procedures applied to all areas of product and production have been certified in accordance with ISO 9001.



CERTIFICATE ISO 9001  
CERTIFICATE CE PED  
CERTIFICATE EAC  
CERTIFICATE 303/2008

Our products are CE marked and in compliance with directive 97/23/CE-PED EAC and other international standards are also available.



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# Refrigeration Dryers

## High compressed air inlet temperatures up to 90°C | MHA-T

Flow-rate 0.5 to 7.5 m<sup>3</sup>/min [Max. pressure 16 bar for MHA8 - MHA18; 14 bar for largers]



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# AIR DRYER WITH AFTERCOOLER | MHA-T



M-PLUS is keen to respond to the special needs of its customers and has developed a new range of dryers with an integral aftercooler in order to remove water from pipelines. The dryer range can be selected when the compressed air inlet temperature is greater than 50°C to 60°C, and the floor space is limited. There is no need for a separate free-standing aftercooler which saves both space and installation costs.

M-PLUS has continued using its design philosophy to allow quick and easy access for routine maintenance.

The system provides a pressure dew point of +3°C to +7°C AT 7 barg working pressure. Since most production processes operate at temperatures well above these levels, your compressed air will be clean and dry at all times.

## TECHNICAL DETAILS

### CONTROL PANEL



#### DMC35 CONTROLLER (Standard)

Operation of the MHA-T dryer is monitored by DMC35 electronic controller which indicates the DewPoint temperature digitally, controls the condensate drain valve via a timer and the condenser fan via a probe.



#### DMC34 CONTROLLER (Optional)

Operation of the MHA-T dryer is controlled and monitored by DMC34 digital controller. Featuring a 3-digit display for the visualization of the DewPoint temperature (in °C or °F) and the dryer total operating hours. DMC34 includes as well the condenser fan control, scheduled maintenance reminder, timer for the condensate drain valve and detection of any dryer malfunction (also reported on the potential free alarm contact)

### HOT GAS BY-PASS VALVE



The precise and accurate hot gas by-pass valve, which prevents the formation of ice inside the evaporator at any load condition, is a recent development unavailable in the past. The valve is set during final test and no further adjustments are necessary.

### CONDENSATE DRAIN

MHA-T models are fitted with an electronic system to drain the condensate interfaced to the controller. Discharge and pause times are adjustable. Drainage group includes also a ball isolation valve and a strainer.

### COMPRESSOR

MHA-T are fitted with high efficiency piston compressors sourced from major producers.



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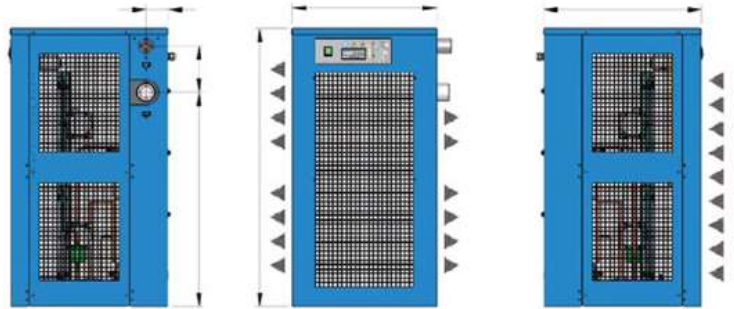
# TECHNICAL FEATURES

Data refers to the following nominal conditions

Ambient temperature: 35°C  
 Inlet air temperature: 80°C  
 Inlet air pressure: 7 barg  
 Pressure Dew Point: 7°C

Maximum working conditions

Ambient temperature: 45°C  
 Inlet air temperature: 90°C  
 Inlet air pressure: 14 barg (16 barg for MHA 5 - MHA 18)



Model	Refrig.	Flow-rate at Nominal conditions			Pressure Drop bar	Connections IN-OUT [Ø]	Power Supply [Ph/V/Fr]	Dimensions [mm]			Weight [+kg]
	Type	L/min	m <sup>3</sup> /h	SCFM				A	B	C	
MHA5-T	R134.a	500	30	18	0.07	G 1/2"	1/230/50	650	426	416	33
MHA8-T	R134.a	800	48	28	0.11	G 1/2"	1/230/50	650	426	416	33
MHA12-T	R134.a	1,200	72	42	0.22	G 1/2"	1/230/50	650	426	416	34
MHA18-T	R134.a	1,800	108	64	0.38	G 1/2"	1/230/50	650	426	416	37
MHA25-T	R134.a	2,500	150	88	0.37	G 1"	1/230/50	900	444	440	45
MHA32-T	R134.a	3,200	192	113	0.41	G 1.1/4"	1/230/50	900	444	440	49
MHA45-T	R407C	4,500	270	159	0.45	G 1.1/4"	1/230/50	900	469	511	61
MHA65-T	R407C	6,500	390	230	0.43	G 1.1/2"	1/230/50	1,287	602	583	89
MHA75-T	R407C	7,500	450	265	0.45	G 1.1/2"	1/230/50	1,287	602	583	91

On request with 60Hz power supply.

Correction factor for operating pressure changes:

Inlet air pressure	barg	4	5	6	7	8	10	12	14
Factor (F1)		0.77	0.86	0.93	1.00	1.05	1.14	1.21	1.30

Correction factor for ambient temperature changes:

Ambient temperature	°C	32	35	38	40	45
Factor (F2)		1.05	1.00	0.95	0.91	0.83

Correction factor for inlet air temperature changes:

Inlet air temperature	°C	70	80	90
Factor (F3)		1.11	1.00	0.89

Correction factor for Dew Point changes:

Pressure Dew Point	°C	5	7	10
Factor (F4)		0.85	1.00	1.05



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