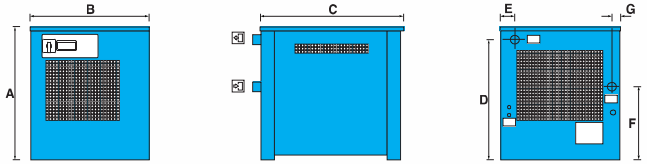
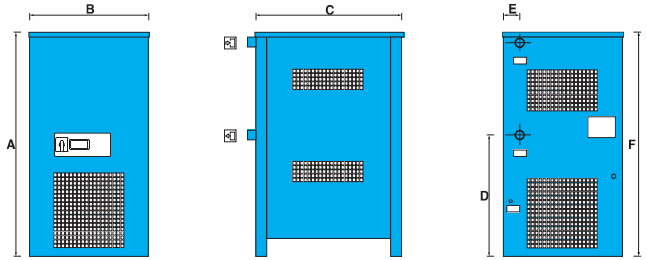
TECHNICAL FEATURES OF THE DRYERS *MHT* 5-75

***MHT* 5-10**



***MHT* 15-75**



Data refer to the performance to the air outcoming from the compressor (inlet 20 °C and 1 bar) and at the following nominal condition: Ambient temperature of 32 °C, with inlet air at 7 barg and 80 °C, and 10 °C Pressure DewPoint.
Max. working condition: Ambient temperature 45 °C, Inlet air temperatuer 100 °C and Inlet air pressure 16 barg.

MODEL	Refrig.	Flow-Rate			Pressure Drop	Connections	Power Supply	Dimensions [mm]							Weight
	[type]	Nl/min	Nm^3/h	Scfm	[bar]	ø IN-OUT	[Ph/V/Hz]	A	B	C	D	E	F	G	[kg]
***MHT* 5**	R134.a	565	34	20	0.20	G 3/4" BSP-F	1/230-240/50	505	450	540	455	55	280	32	40
***MHT* 10**	R134.a	850	51	35	0.20	G 3/4" BSP-F	1/230-240/50	505	450	540	455	55	280	32	41
***MHT* 15**	R134.a	1614	99	58	0.20	G 3/4" BSP-F	1/230-240/50	800	450	540	450	60	760		41
***MHT* 20**	R134.a	2400	145	85	0.20	G 3/4" BSP-F	1/230-240/50	800	450	540	450	60	760		49
***MHT* 25**	R134.a	2960	160	95	0.20	G 1" BSP-F	1/230-240/50	800	450	540	450	60	760		51
***MHT* 30**	R134.a	3700	223	131	0.35	G 1" BSP-F	1/230-240/50	1015	540	670	550	75	970		68
***MHT* 40**	R134.a	4300	258	152	0.35	G 1.1/4" BSP-F	1/230-240/50	1160	585	820	710	75	1110		88
***MHT* 50**	R134.a	5800	348	205	0.35	G 1.1/2" BSP-F	1/230-240/50	1160	585	820	710	75	1110		113
***MHT* 60**	R134.a	6500	391	230	0.35	G 2" BSP-F	1/230-240/50	1160	585	820	710	75	1110		122
***MHT* 75**	R134.a	7500	450	265	0.35	G 2" BSP-F	1/230-240/50	1160	585	820	710	75	1110		124

Correction factor for operating pressure changes:									
Inlet air pressure	barg	4	5	6	7	8	10	12	15
Correction factor		0.77	0.85	0.93	1.00	1.06	1.15	1.21	1.27

Correction factor for ambient temperature changes:								
Ambient temperature	°C	25	32	35	38	40	43	45
Correction factor		0.77	1.00	0.95	0.95	0.85	0.70	0.75

Correction factor for inlet air temperature changes:						
Air temperature	°C	70	80	90	95	100
Correction factor		1.10	1.00	0.80	0.70	0.65

Correction factor for DewPoint changes:						
DewPoint	°C	9	10	11	13	15
Correction factor		0.90	1.00	1.05	1.10	1.15

M-PLUS FILTRATION CO., LTD.
91/22 Moo 9, Ngamwongwan Rd., T.Bangkrasor,
A.Muang, Nonthaburi 11000, Thailand.
Direct : +66.(2).588 5883
Tel. +66.(2).953 5783-4
Fax. +66.(2).591 9388
E-mail : infomplus@gmail.com
www.mplusfiltration.com

M-PLUS

MHT

HIGH TEMPERATURE DRYERS

Dryer with air-cooled aftercooler

100°C max. inlet

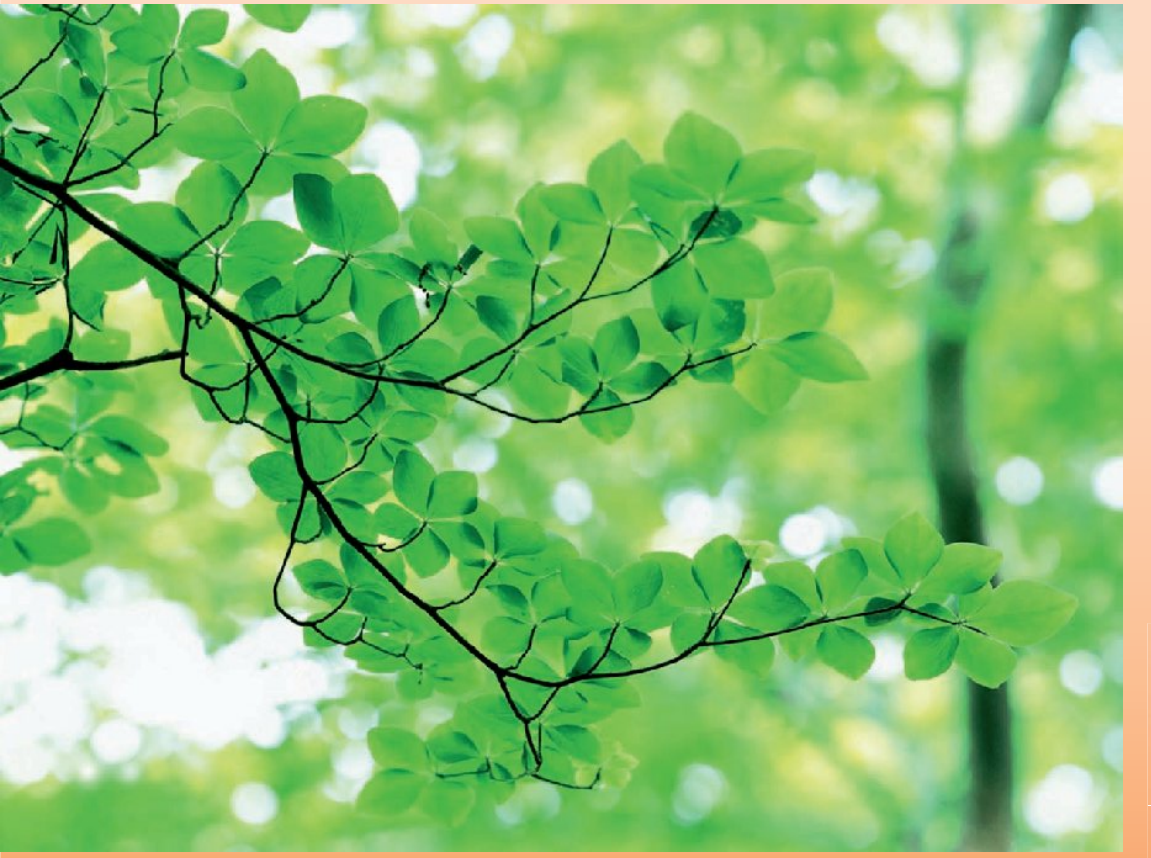
10°C dewpoint

M-PLUS

DRYER WITH AIR-COOLED AFTERCOOLER

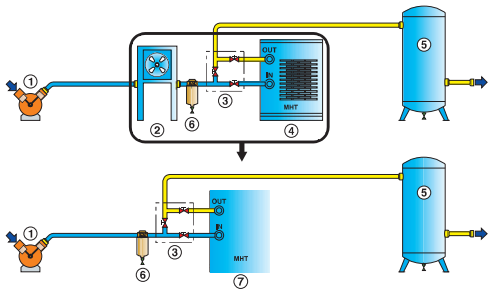
Compact unit. Accepts hot air, up to 80 °C, directly from the compressor.

M-PLUS is keen to respond to the special needs of its customers and has developed a new range of dryers with an intergral 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. The dryer has the same foolprint as a standard unit with a small increase in height from model MHT 15. M-PLUS has continued using its design philosophy to allow quick and easy access for routine maintenance.



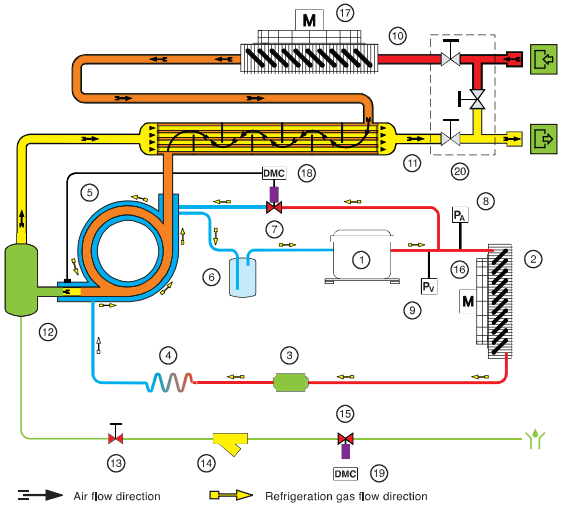
INSTALLATION LAYOUT

1. Air compressor
2. M-PLUS aftercooler
3. By-pass
4. M-PLUS dryer
5. Receiver
6. Compressed air filter
7. M-PLUS dryer ***MHT***



AIR AND REFRIGERANT GAS FLOW DIAGRAM

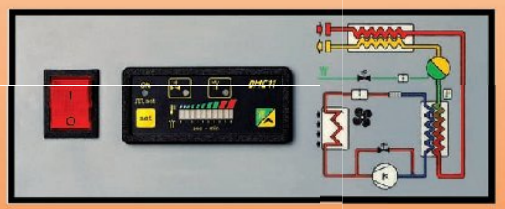
1. Refrigeration compressor
2. Condenser
3. Dehydration filter
4. Capillary tube
5. Evaporator
6. Liquid separator (***MHT***30-75 only)
7. Hot gas by-pass solenoid valve
8. Refrigerant pressure switch P_A (***MHT***75 only)
9. Refrigerant pressure switch P_V
10. Aftercooler unit (***MHT***15-75 only)
11. Air-to-air heat exchanger
12. Condensate separator
13. Condensate drain service valve
14. Condensate strainer
15. Condensate drain solenoid valve
16. Condenser unit fan
17. Aftercooler unit fan(***MHT***15-75 only)
18. DMC11 Air Dryer Controller
19. DMC11 (DewPoint) Controller probe
20. By-pass system (optional)



ELECTRONIC CONTROL

For an optimal operation of its dryers, M-PLUS has implemented a new series of reliable and precise electronics instruments with all functions being adjustable on the machine, thus ensuring constant performance even in variable operation conditions.

DMC 11 Air Dryer Controller



The DMC 11 device controls the whole operation of the dryer and allows the calibration of the operating parameters. The activation of the hot-gas solenoid valve is driven by means of probe located at the end of the evaporator, while a cyclic electronic timer drives the condensate drain solenoid valve at regular intervals.