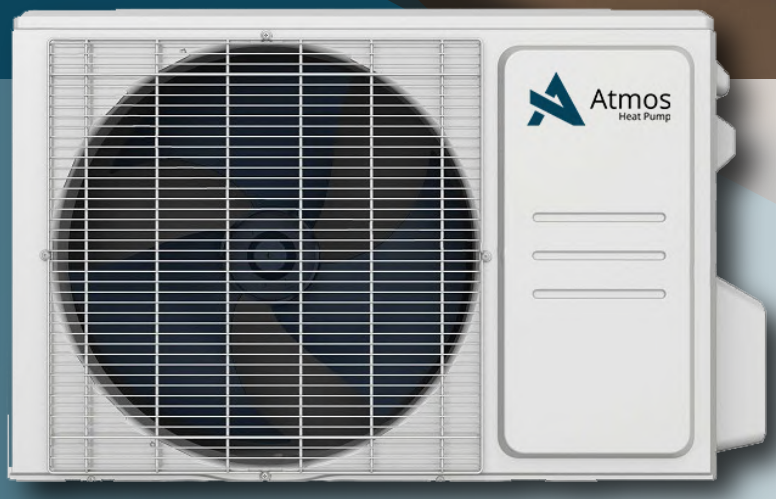
Atmos
Heat Pump

Central Heat Pump

MHD-18 & MHD-24

COLD CLIMATE



In order to increase the comfort benefit provided by the modulation of our furnaces, we developed our Atmos outdoor unit, an integrated part of our Right-Sized System®, allowing variable speed cooling and heating.

The Right-Sized System®, is a central warm air system with variable speed exclusive to Dettson. It is the combination of our Atmos heat pump unit with our Chinook gas furnace or our Supreme Electric furnace.

WARRANTY 10 years PARTS · WARRANTY 10 years COMPRESSOR · AHRI CERTIFIED® · INVERTER · c UL us LISTED · NEEP ccASHP LISTED · R410A · ENERGY STAR

Dettson

X61006_B

ATMOS

Outdoor Unit Specifications

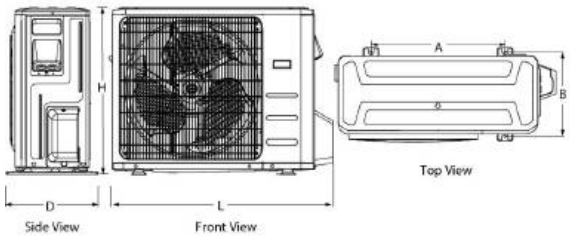
Outdoor unit		MHD-18	MHD-24
Indoor coil		MHD-CC2.0-17.5-M	MHD-CC2.0-17.5-M
Power Supply		208/230 VAC, 60 Hz, 1 phase	
Cooling Capacity (min-max)	BTU/h	18000 (8870-19400)	24000 (6850-27000)
Heating Capacity (min-max)	BTU/h	18000 (15100-19500)	29000 (11900-31000)
Cooling Input (min-max)	W	1440 (230-1760)	1845 (310-2400)
Heating Input (min-max)	W	1700 (1390-2050)	2500 (670-2700)
Rated Current	A	7.3	10.9
MCA	A	16	25
MOCP	A	25	35
EER	BTU/h/W	11.7	11.3
SEER		16.2	16.2
EER 2	BTU/h/W	11.7	11.7
SEER 2		15.2	15.2
COP at 5°F (-15°C)	W/W	2.19	2.08
COP at 47°F (8,5°C)	W/W	3.4	3.4
HSPF (Region IV)		10.1	10.0
HSPF 2 (Region IV)		9.5	9.8
AHRI Number		210365427	210365428
(CC) Energy Star		✓	✓
Compressor LRA	A	14.25	17.1
Compressor RLA	A	36	58
Compressor Power Input	W	2045	2045
Fan Motor RLA	A	0.76	0.50
Air Flow Volume	CFM	1765	2235
Sound Level	dB(A)	59	62
Cooling Amb. Temp.	℃ (℉)	-30 - 50 (-22 - 122)	
Heating Amb. Temp.	℃ (℉)	-30 - 30 (-22 - 86)	
Net Weight	lb	101	134
Refrigerant		R410A	
Refrigerant Charge	oz	65.2	91.7
Additional Charge	oz/ft	0.16	0.32
Pipe Length	ft	25	25
Pipe Max Length	ft	98	164
Pipe Max Height	ft	66	82
K03085 Interface Card		Included	Included

Features & Benefits

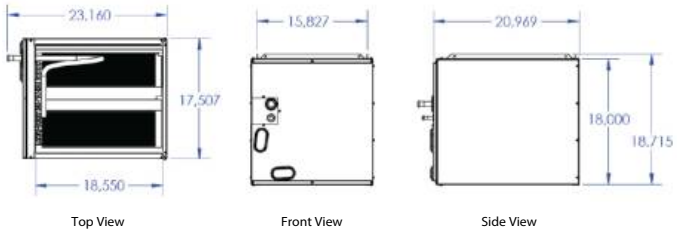
- Variable speed compressor, modulates from 35% to 100%
- Capacities from 1.5 tons to 2 tons
- Specially designed fan blades for low drag, reducing fan noise to a minimum
- Side Discharge Unit
  - Very small footprint
  - Quiet outdoor operation
- Longer operating cycles for better air mixing
  - Uniform temperature for thermal comfort
  - Lower CFM
  - Quiet air distribution compared to traditional overshoot airflow
  - Better humidity control
- Low electrical consumption in both heating and cooling

Dimensions inches (cm)

Outdoor Unit



Indoor Unit (A-Coil)



Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
MHD-18	35 1/16	890	26 1/2	673	13 7/16	342	26 1/8	663	13 11/16	348
MHD-24	37 1/4	946	31 7/8	810	16 1/8	410	26 1/2	673	17 15/16	455