

VRF Multiport Distribution Controller (MDC) 40VMD016ML-3 — Main MDC



Submittal Data

Job Data _____ Location _____
 Buyer _____ Buyer PO # _____ Carrier # _____
 Unit Number _____ Model Number _____
 Performance Data Certified By _____ Date _____



STANDARD FEATURES

- Allows the connection of multiple indoor units to the Heat Recovery VRF system
- MDC allows up to 16 indoor unit connections
- Main MDCs have refrigerant ports that feed sub MDCs (if used)
- Heat Recovery VRF System can support one Main MDC and two sub MDCs, maximum
- Separate 208-230/1/60 power required
- MDC ports may be twinned to serve high-capacity units (sizes greater than 54 kBtu/h)
- MDC has individual “home run” communication port plugs for each indoor unit
- Liquid and gas pipe adapters are provided with MDCs to accommodate various indoor unit capacities
- High-pressure, low-pressure, and gas pipe adapters are provided with Sub MDCs to accommodate various MDC total capacities

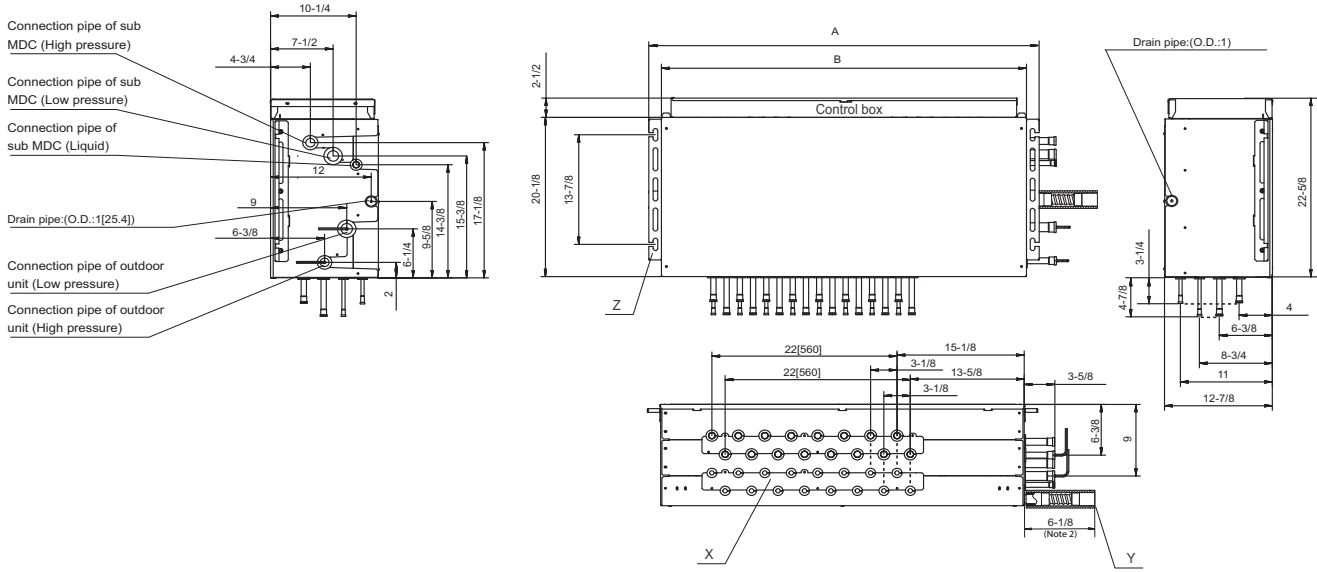
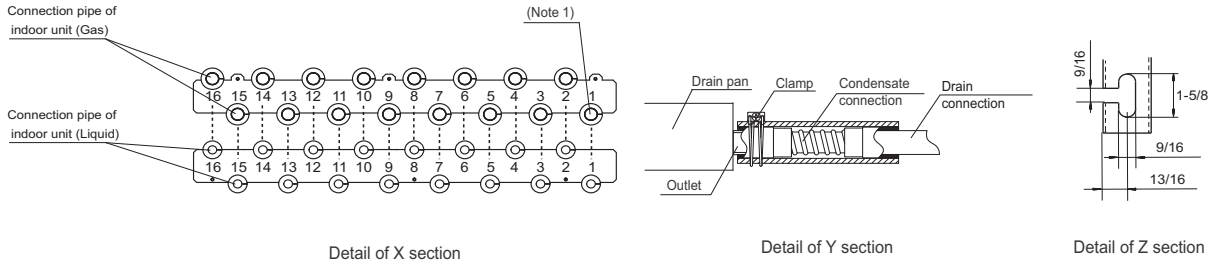
MDC UNIT MODEL		40VMD016ML-3
NUMBER OF PORTS		16
MAX CAPACITY PER INDOOR UNIT PORT	kBtu/h	54
AVAILABLE SUB MDC MODELS*		40VMD006S--3, 40VMD008S--3, 40VMD010S--3, 40VMD016S--3,
ELECTRICAL		
Power Supply	V-Ph-Hz	208/230-1-60
Minimum Circuit Amps	A	1.54
Maximum Overcurrent Protection	A	15
Motor Type		DC
Power Wiring		Sized per NEC and local codes based on nameplate electrical data
Signal Wiring		2-core shielded twisted pair cable 20 AWG - 16 AWG
DESIGN PRESSURE, HIGH/LOW	psig	480/320
DRAINAGE WATER PIPE DIAMETER, OD	in.	1
PIPE SIZE - ODU TO MAIN MDC		
High Pressure (Mixed Phase)	in.	1-1/8
Low Pressure (Gas)	in.	1-3/8 - 1-5/8

PIPE SIZE - MAIN MDC TO SUB MDC		
High Pressure (Gas)	in.	5/8 - 7/8
Low Pressure (Gas)	in.	3/4 - 1-1/8
Liquid	in.	3/8 - 5/8
PIPE SIZE - MAIN MDC TO IDU		
Liquid	in.	1/4 - 3/8
Gas	in.	1/2 - 7/8
PHYSICAL DATA		
Refrigerant		R-410A
Unit Dimensions (W x H x D)	in.	46-1/2 x 12-7/8 x 22-5/8
Packing Dimensions (W x H x D)	in.	53-7/8 x 18 x 33-1/8
Net Weight	lb	196

LEGEND
 AWG — American Wire Gage
 IDU — Indoor Unit
 MDC — Multiport Distribution Controller
 NEC — National Electrical Code
 ODU — Outdoor Unit

* Number of sub MDC ports cannot exceed the number of main MDC ports.

DIMENSIONAL DRAWING MAIN MDC 40VMD016ML-3



NOTES:

1. An indoor unit must be connected to port #1 to avoid communication error.
2. Optional condensate connection is available on either side of the unit.
3. Refer to installation manual for piping sizes.
4. All dimensions shown in inches.

MODEL	MDC016L
A	46-1/2 in.
B	43-1/4 in.