

VRF Multiport Distribution Controller (MDC) 40VMD016M--3 — Main MDC (6 to 20 Ton, Small and Medium Cabinet)



Submittal Data

Job Name _____ Location _____
Tag _____



STANDARD FEATURES

- Allows the connection of multiple indoor units to the Heat Recovery VRF system
- MDC allows up to 16 zones
- 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		40VMD016M--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
Power Wiring		Sized per NEC and local codes based on nameplate electrical data
Signal Wiring		2-core shielded twisted pair cable 18 AWG
DESIGN PRESSURE, HIGH/LOW	psig	580/320
DRAINAGE WATER PIPE DIAMETER, OD	in.	1
PIPE SIZE - ODU TO MAIN MDC		
High Pressure (Mixed Phase)	in.	5/8 - 1-1/8
Low Pressure (Gas)	in.	3/4 - 1-3/8

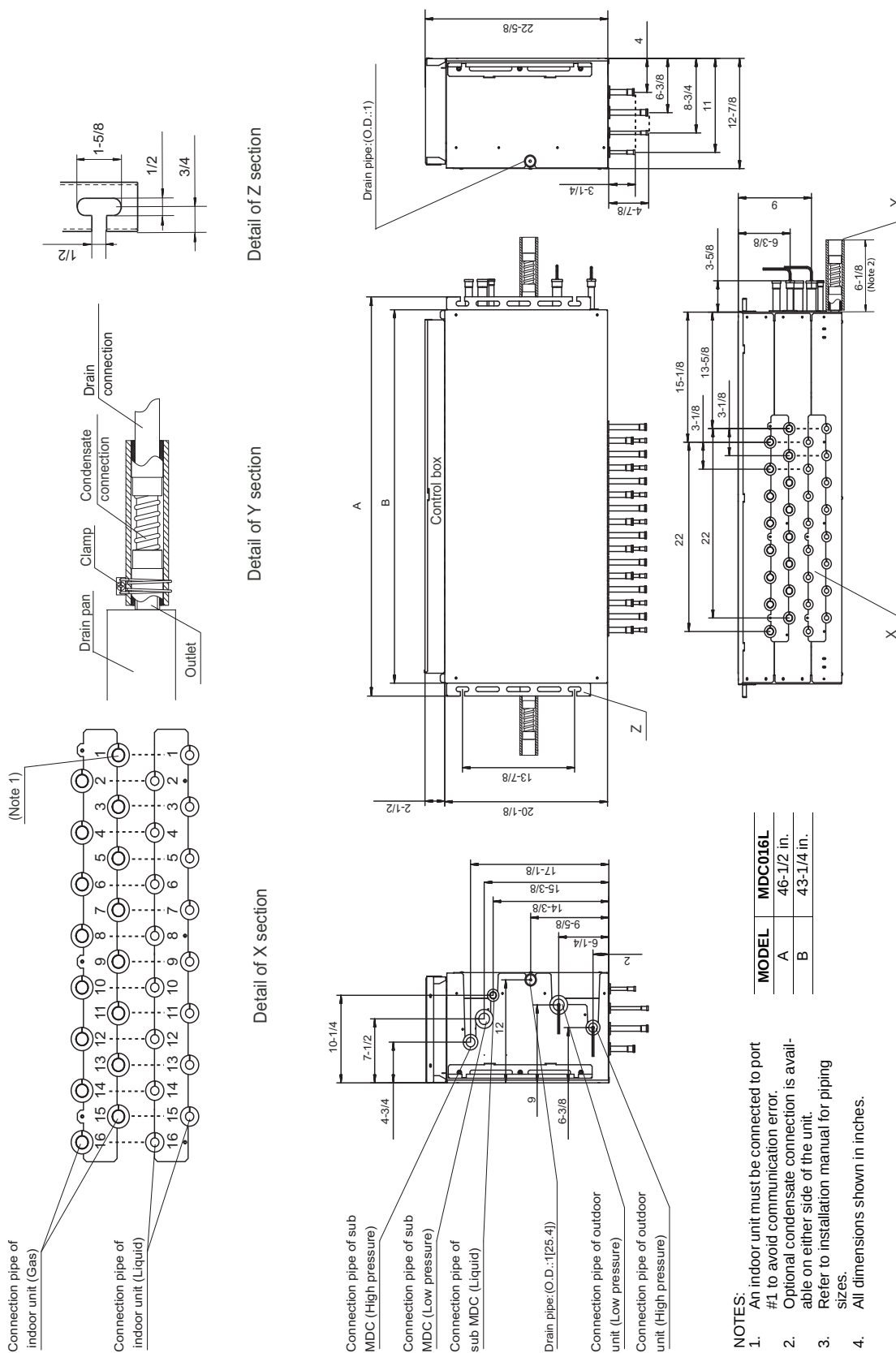
PIPE SIZE - MAIN MDC TO SUB MDC		
High Pressure (Gas)	in.	5/8 - 7/8
Low Pressure (Gas)	in.	3/4 - 1-1/8
Liquid	in.	3/8 - 5/8
PIPE SIZE - MAIN MDC TO IDU		
Liquid	in.	1/4 - 3/8
Gas	in.	1/2 - 7/8
PHYSICAL DATA		
Refrigerant		R-410A
Unit Dimensions (W x H x D)	in.	46-1/2 x 12-7/8 x 22-5/8
Packing Dimensions (W x H x D)	in.	53-7/8 x 18 x 33-1/8
Net Weight	lb	190

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

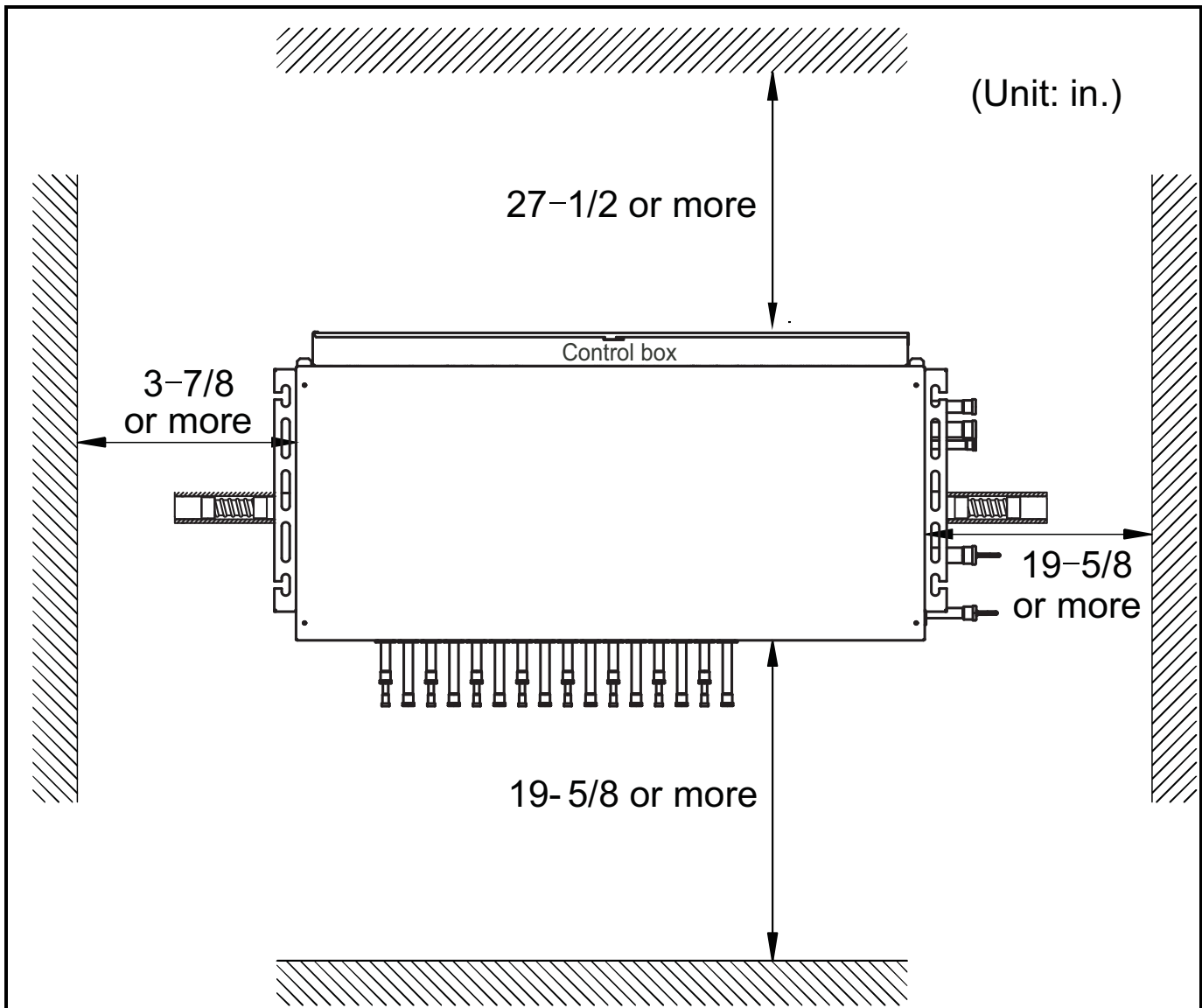
* Number of sub MDC ports cannot exceed the number of main MDC ports.

DIMENSIONAL DRAWING

MAIN MDC 40VMD016M--3 (6 TO 20 TON, SMALL AND MEDIUM CABINET)



RECOMMENDED SERVICE CLEARANCES



RECOMMENDATION FOR GRAVITY DRAIN INSTALLATION

