

VRF Multiport Distribution Controller (MDC) 40VMD010S--3 — Sub MDC



Submittal Data

Job Name _____ Location _____
Tag _____



STANDARD FEATURES

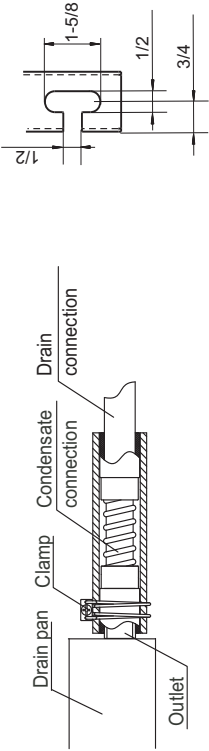
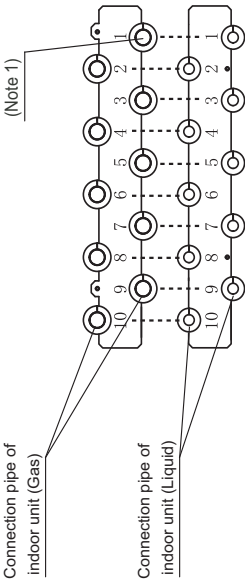
- Allows the connection of multiple indoor units to the Heat Recovery VRF system
- MDC allows up to 10 zones
- Main MDCs have refrigerant ports that feed sub MDCs (if used)
- Heat Recovery VRF System can support one Main MDC and two sub MDCs, maximum
- Separate 208-230/1/60 power required
- MDC ports 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		40VMD010S--3
NUMBER OF PORTS		10
MAX CAPACITY PER INDOOR UNIT PORT	kBtu/h	54
ELECTRICAL		
Power Supply	V-Ph-Hz	208/230-1-60
Minimum Circuit Amps	A	1.01
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 - 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

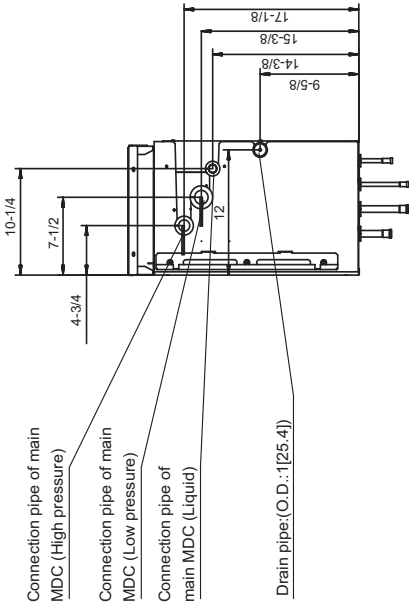
PIPE SIZE - SUB MDC TO IDU		
Liquid	in.	1/4 - 3/8
Gas	in.	1/2 - 7/8
PHYSICAL DATA		
Refrigerant		R-410A
Unit Dimensions (W x H x D)	in.	37 x 12-7/8 x 22-5/8
Packing Dimensions (W x H x D)	in.	44-1/2 x 18 x 33-1/8
Net Weight	lb	137

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

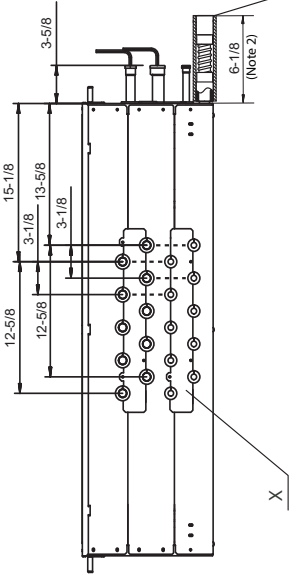
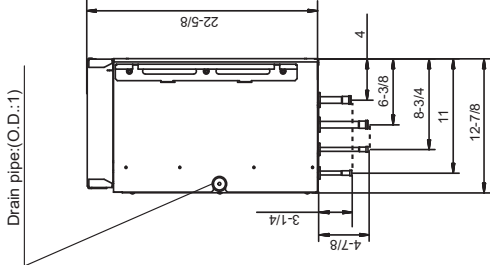
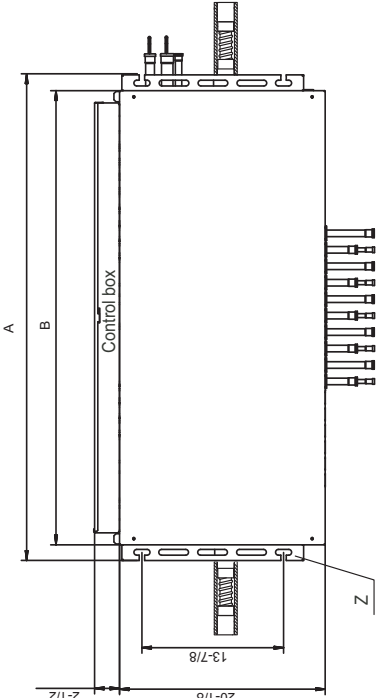
DIMENSIONAL DRAWING SUB MDC 40VMD010S--3



Detail of X section



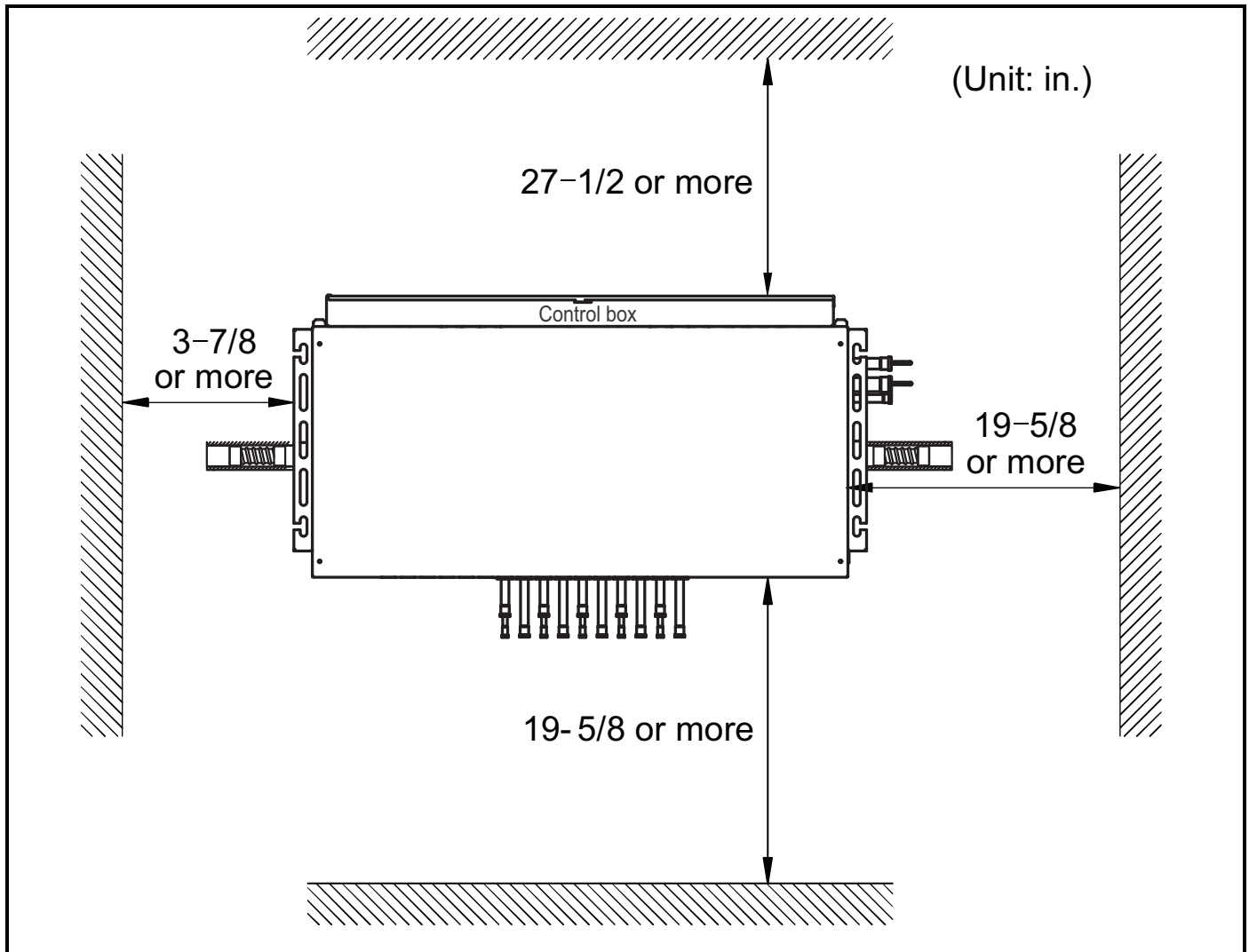
Detail of Y section



- 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	MDC006
A	37 in.
B	33-78 in.

RECOMMENDED SERVICE CLEARANCE



RECOMMENDATION FOR GRAVITY DRAIN INSTALLATION

