

Inverter Compressor Air Cooled Condensing Unit

Design for precision temperature and humidity controls application.

°C +
%RH

Suitable for germ free area application.



*With ENERCOV's
temperature & humidity
LED display controller*



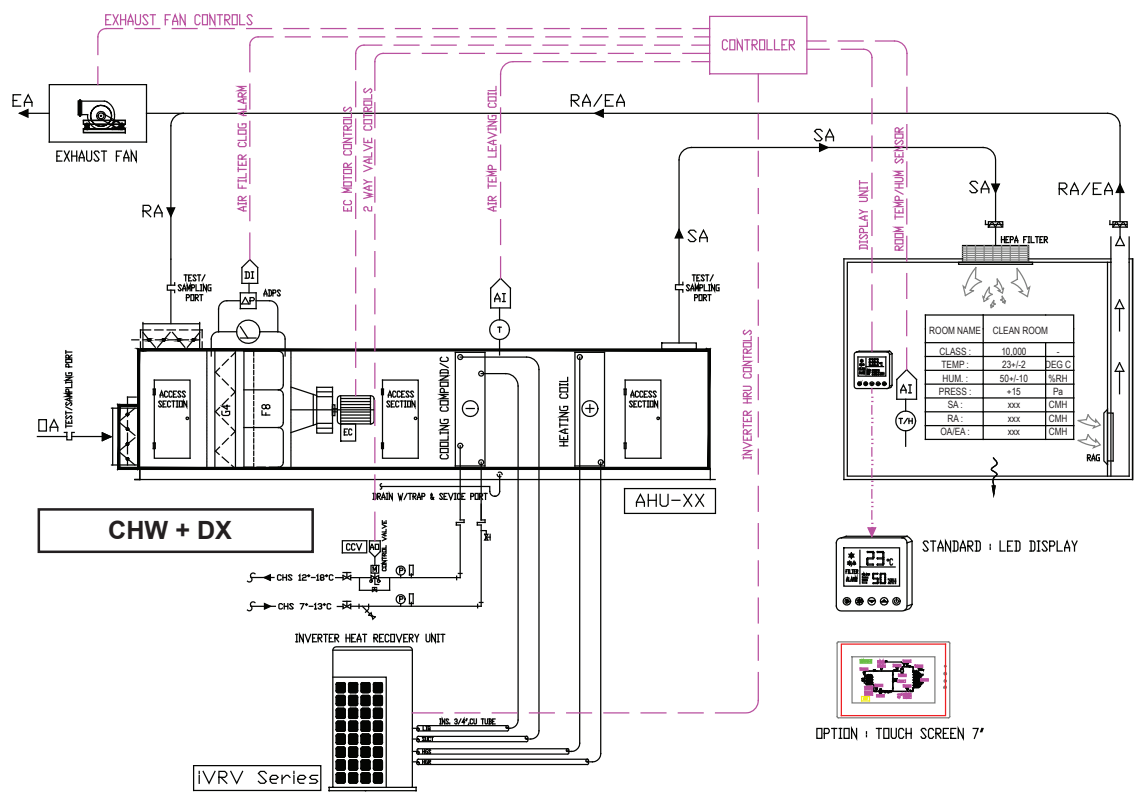
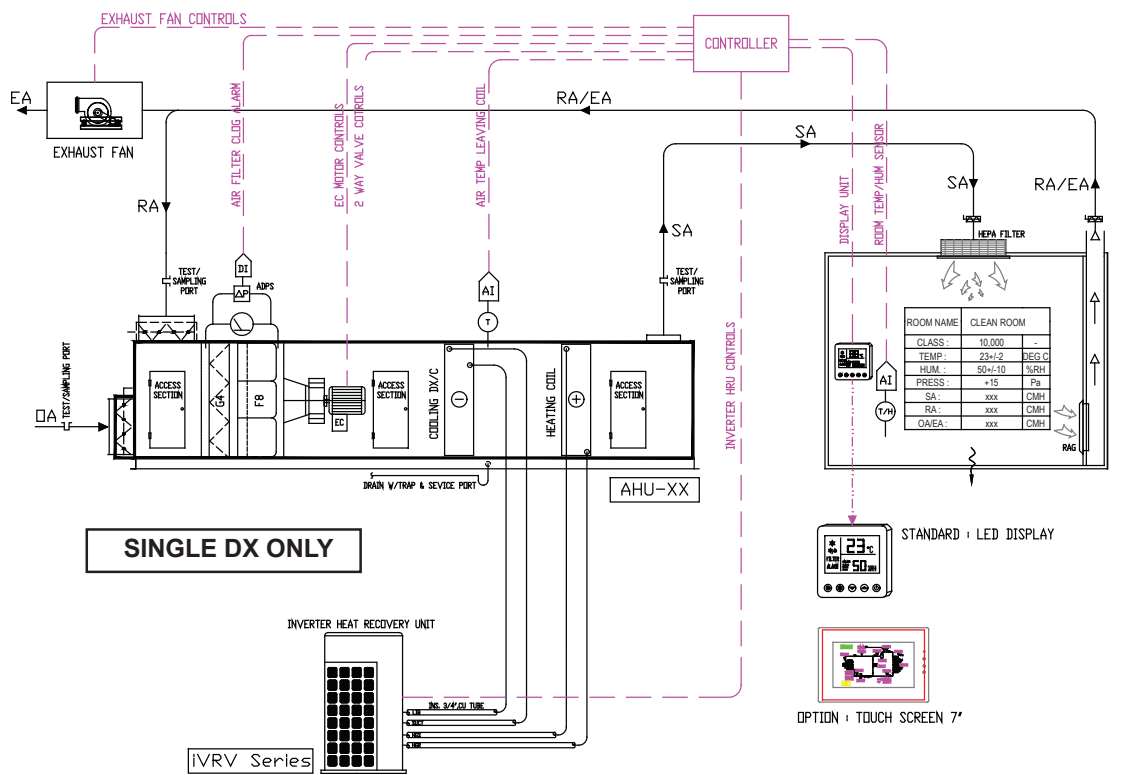
iVRV Series

Cooling capacity range 23.4 - 70.3 kW

R410A/R32

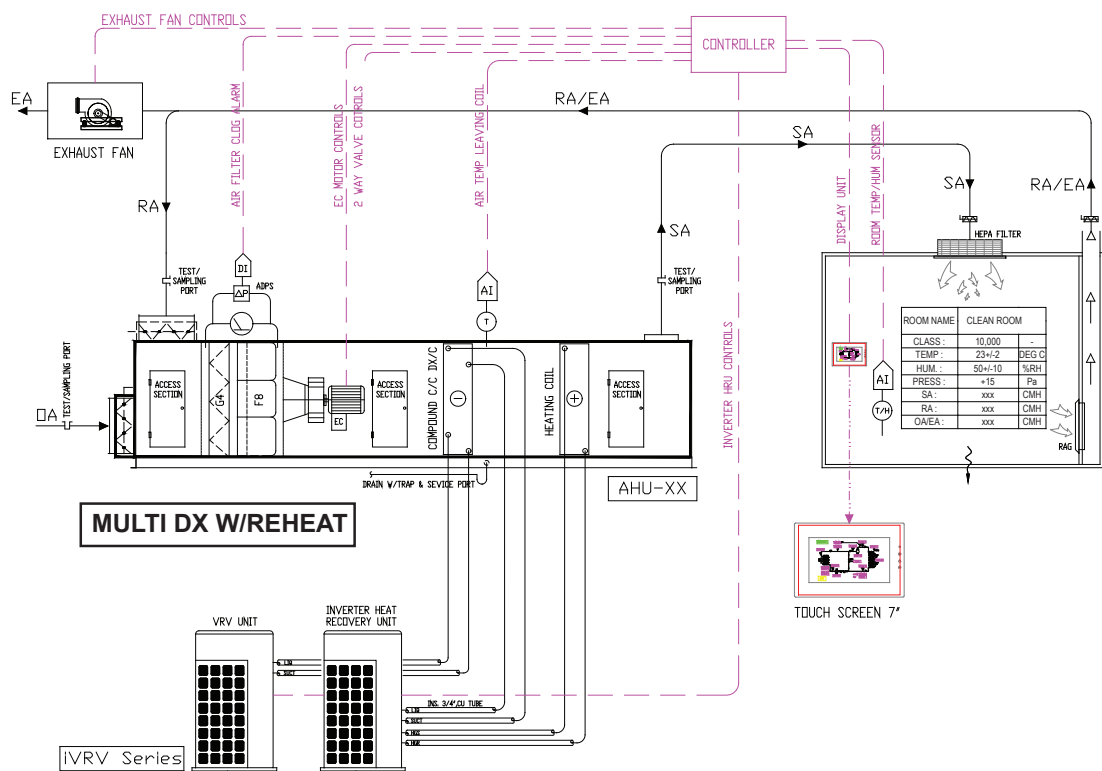
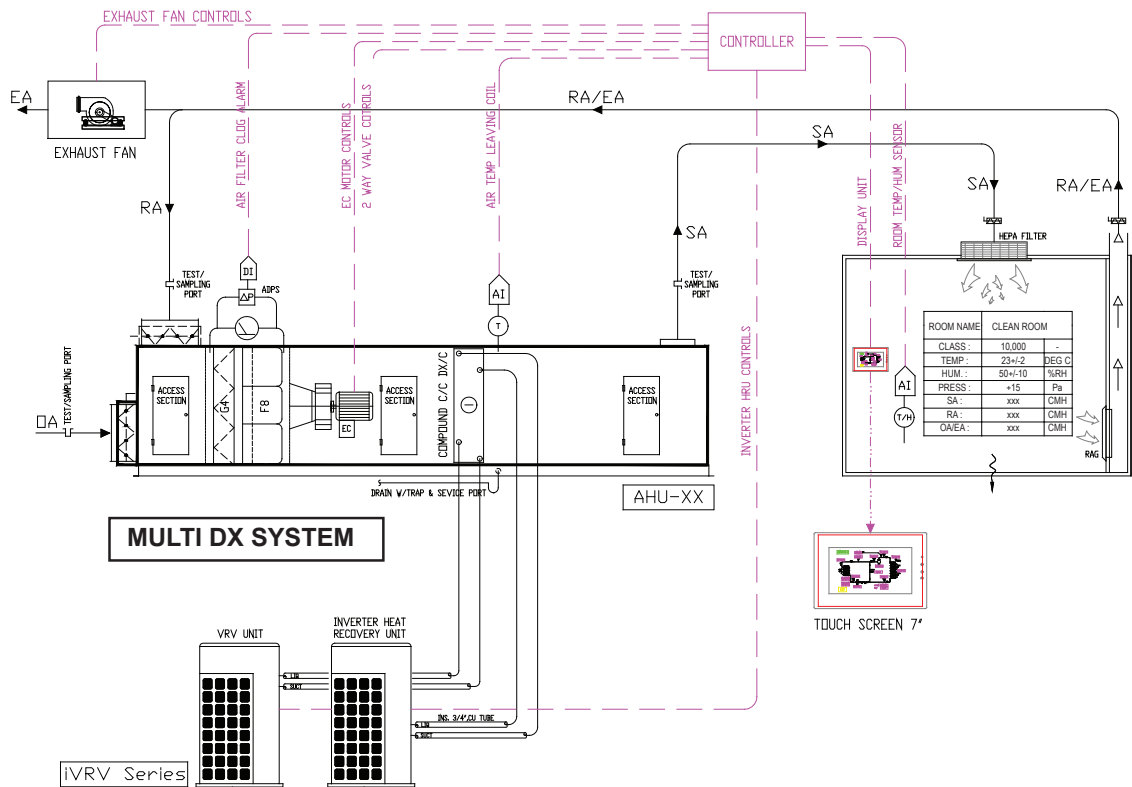
iVRV Series

Sample Application



iVRV Series

Sample Application



Technical specification

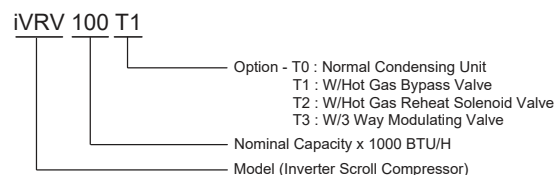
Outdoor Unit Model	Unit	iVRV080	iVRV100	iVRV120	iVRV150	iVRV175	iVRV200	iVRV240
Cooling capacity (BTU/H)	Max	80000	100000	125000	150000	175000	200000	240000
	Min	20000	25000	31250	37500	43750	50000	60000
Cooling capacity (kW)	Max	23.4	29.3	36.6	44.0	51.3	58.6	70.3
	Min	5.9	7.3	9.2	11.0	12.8	14.7	17.6
Heating capacity (kW)	Max	30.2	37.9	47.2	57.4	67.2	79.1	92.7
Hot Gas Reheat Control	-	Solenoid Valve (Option)						
Compressor	Type	BLDC inverter scroll compressor						
	Reference	52	66	78	87	87	100	119
	EE Power (kW)	8.21	10.14	12.03	14.96	17.41	21.95	23.90
Metering Device	EXV	Built In Electronic Expansion Valve 500 Steps						
High/Low Pressure Switch	HP Switch	Yes						
	LP Switch	Yes						
	HP Transducer	Option						
	LP Transducer	Option						
Temperature Sensor	Ambient Temp	Yes						
	Suction Gas	Yes						
	Discharge Gas	Yes						
	Condensing Coil	Yes						
Power supply	V/Ph/Hz	380-415/3/50						
Condenser coil	Type	Aluminium plate fins, copper tube						
Fan & Motor	Type	Propeller fan						
	Qty	1	1	1	2	2	2	2
	Source	400V3Ph50Hz						
	Motor kW	0.75	1.10	1.10	2 x 0.75	2 x 0.75	2 x 0.75	2 x 0.75
Connection (inch)	Suction	3/4	7/8	1-1/8	1-1/8	1-3/8	1-3/8	1-3/8
	Liquid	3/8	1/2	1/2	1/2	5/8	5/8	3/4
Dimension (mm.)	Width	930			1555		1700	
	Height	1533			1533		1567	
	Dept	822			822		905	
Approx. weight	kgs	135	150	165	195	225	275	400

Note : Cooling capacity based on 35°C outdoor air, evaporating temperature 7.2°C and air on coil 26.7°CDB 50%RH.

Product specification

Description	: Air cooled condensing unit, inverter compressor.
Refrigerant charged	: R410A (R32 is an option).
CDU Fan	: Brush less direct current (BLDC) motor
Expansion valve	: Built-in electronic expansion valve 500 steps.
Oil separator	: Built-in oil separator
Compressor driver	: Inverter electronic power driver input 380V3Ph50Hz
EMI filter	: Built-in EMI with choke
Sensor	: Built-in 4 temperature sensor
Pressure switch	: High & low pressure switches
Communication	: Modbus RS485
Casing	: High quality sheet metal with powder coating system

Product nomenclature



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