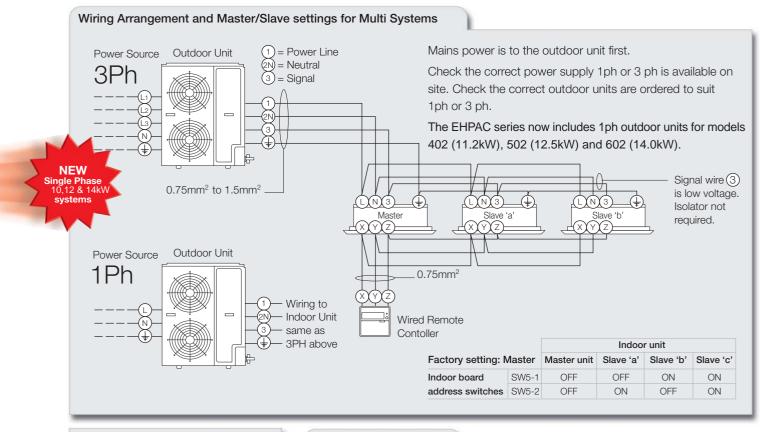
FDA Multi Systems - Technical Data



Power Supplies & Operating Current – Outdoor Units

Outdoor Unit	Clg/Htg kW	Power Supply to Outdoor Unit	Operating Current (clg.)
FDCA301HEN	7.2/7.3	1ph 20A	9.8A
FDCA301HES	7.2/7.3	3ph 15A/ph	3.6A/ph
5A start current	on following	g Inverter units	
FDCVA402HEN	11.2/11.2	1ph 20A	13.0A
FDCVA502HEN	14.0/16.0	1ph 25A	18.4A
FDCVA602HEN	14.8/16.8	1ph 30A	20.4A
FDCVA802HES	22.4/25.0	3ph 15A/ph	9.1A/ph
FDCVA1002HE	3 <mark>28.0/31.5</mark>	3ph 20A/ph	12.7A/ph

Indoor Units – Operating Current

Outdoor Unit	FDT	FDE	FDUR	FDK
151	0.3A	0.2A		0.2A
201	0.3A	0.2A	0.9A	0.2A
251	0.3A	0.4A	1.0A	0.2A
301	0.3A	0.4A	1.3A	0.5A
401	0.6A	0.5A	1.7A	
501	0.7A	0.6A	2.0A	

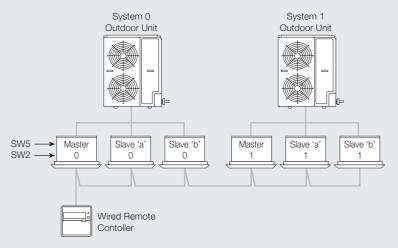
Indoor Unit Address

Indoor units connected to FDA Multi Systems are required to be addressed, to enable the controls to recognise which units are connected to each system.

Power supplies to indoor units are connected from the outdoor unit, with an additional SIGNAL wire connected to the MASTER indoor unit - which also has the remote control connected. The other indoor units must be addressed as Slave 'a' and Slave 'b' units - see bottom of page .

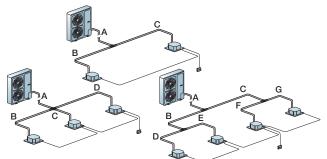
Group Control

Where Multi Systems are controlled on a Group arrangement (up to 16 systems) using a single remote controller, it is necessary to adjust SW2 so each individual Multi System has indoor units with the same address number, ie. 0-0-0,1-1-1, 2-2-2, etc.



The Master/Slave addresses must also be adjusted using SW5 - see page opposite.

FDA Multi Systems - Installation



Pipe Length Limitations

Height Difference (all systems)

Outdoor unit above max. height difference is 30m Outdoor unit below max. height difference is 15m Difference between indoor units max. height difference is 0.5m Twin Systems 7.2kW to 14.8kW A = main piping, B = branch piping, C = branch piping 50 metres A + B + CMaximum is Difference between B & C No more than 10 metres В Maximum is 20 metres Maximum is 20 metres С Triple Systems 14.8kW A + B + C + DMaximum is 50 metres Difference between B & C or C & D No more than 10 metres Maximum is 20 metres B 20 metres С Maximum is D Maximum is 20 metres Contact 3D for details Quad Systems 14.3kW Twin Systems 20.0 & 25.0 kW - FDCA802 & 1002 Outdoor unit to furthest indoor unit Maximum is 70 metres Difference between B & C no more than 10 metres В Maximum is 30 metres С Maximum is 30 metres Triple Systems 20.0 & 25.0 kW - FDCA802 & 1002 Outdoor unit to furthest indoor unit Maximum is 70 metres Difference between B & C & D no more than 10 metres B Maximum is 30 metres С Maximum is 30 metres D Maximum is 30 metres Quad Systems 20.0 & 25.0 kW - FDCA802 & 1002 Outdoor unit to furthest indoor unit Maximum is 70 metres Difference between B & C no more than 10 metres Difference between D, E, F, G no more than 10 metres B + DMaximum is 30 metres B + EMaximum is 30 metres C + FMaximum is 30 metres C + G30 metres Maximum is

Refrigerant Pipe Sizes

Outdoor	Clg/Htg	System	Pipe sizes o.d. (in)			
Unit	kW	Туре	А	В	C(& D)	D,E,F,G
FDCA301HEN	7.2/7.3	TWIN	3/8 5/8	3/8 1/2	3/8 1/2	
FDCA301HES	7.2/7.3	TWIN	3/8 5/8	3/8 1/2	3/8 1/2	
INVERTER UNITS						
FDCVA402HEN	11.2/12.5	TWIN	3/8 5/8	3/8 1/2	3/8 1/2	
FDCVA502HEN	14.0/16.0	TWIN	3/8 5/8	3/8 5/8	3/8 5/8	
FDCVA602HEN	14.8/16.8	TWIN	3/8 5/8	3/8 5/8	3/8 5/8	
FDCVA602HEN	14.8/16.8	TRIPLE	3/8 5/8	3/8 1/2	3/8 1/2	
FDCVA802HEN	22.4/25.0	TWIN	3/8 7/8	3/8 5/8	3/8 5/8	
FDCVA802HES	22.4/25.0	TRIPLE	3/8 7/8	3/8 5/8	3/8 5/8	
FDCVA802HES	22.4/25.0	QUAD	3/8 7/8	3/8 5/8	3/8 5/8	3/8 1/2
FDCVA1002HES	5 <u>28.0/31.5</u>	TWIN	1/2 7/8	3/8 5/8	3/8 5/8	
FDCVA1002HES	3 <u>28.0/31.5</u>	TRIPLE	1/2 7/8	3/8 5/8	3/8 5/8*	
FDCVA1002HES	5 <u>28.0/31.5</u>	QUAD	1/2 7/8	3/8 5/8	3/8 5/8	3/8 5/8
*For 201 / 401 / 401 (indoors) Triple use 3/8 & 1/2 for the 201 connection						

*For 201 / 401 / 401 (indoors) Triple, use 3/8 & 1/2 for the 201 connection

Refrigerant Pipework must be installed within limitations detailed in the table below. Each system is supplied with the appropriate branch pipe. Pipe connections to the branch kits must be brazed and it is essential to use nitrogen purge while making the connections.

Outdoor Units for Multi Systems



Outdoor Unit Dimensions & Weights

mm	Н	W	D	Kg
FDCA301	845	880	340	75
FDCVA402	845	970	370	61
FDCVA502	845	970	370	61
FDCVA602	845	970	370	63
FDCVA802	1300	970	370	122
FDCVA1002	1505	970	370	140