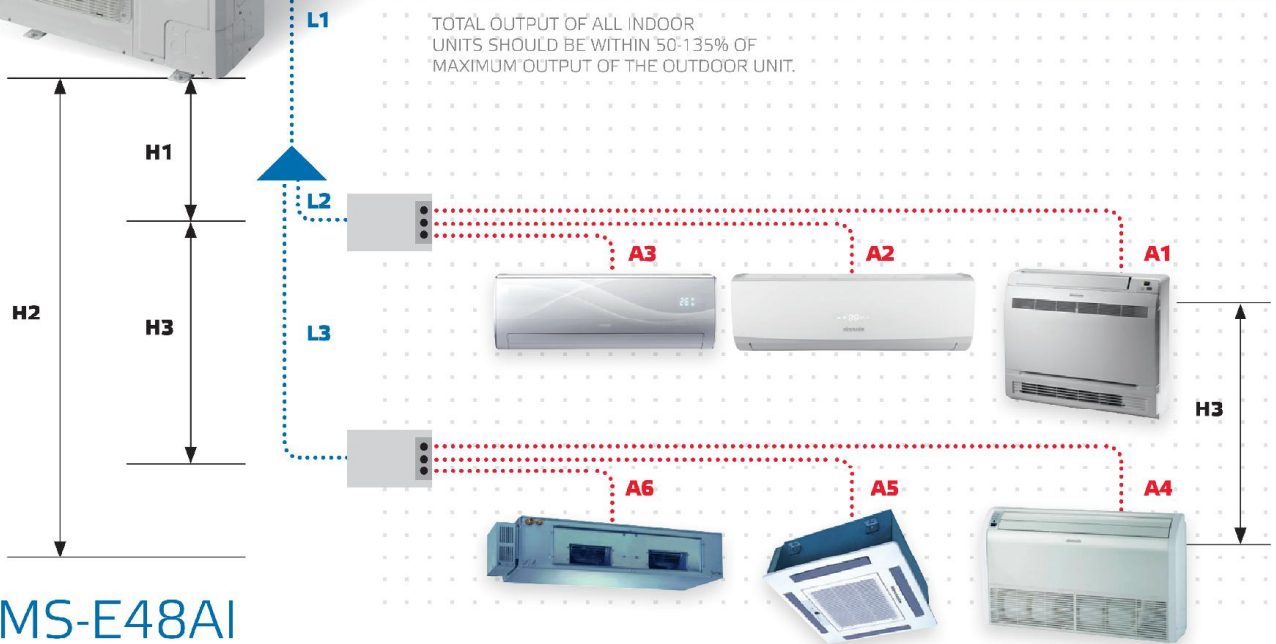


# HIGH POWER MULTI SYSTEM SERIES



(E.G. MS-E48AI SYSTEM CONNECTION)



\*TOTAL OUTPUT OF ALL INDOOR UNITS SHOULD BE WITHIN 50-135% OF MAXIMUM OUTPUT OF THE OUTDOOR UNIT.

## MS-E48AI MS-E56AI

Connectivity starts at 2 and reaches up to 9 indoor units from multi system / multi combi series

Total pipe length 135/145m, total max. elevation 45m

Refrigerant pipes divided by branch joints and distributors

Central controller SCC-16 for indoor units

Automatic scanning of connected indoor units

Automatic addressing of indoor units

Service parameter setting / indication of the running mode/ error report notification

4-way outlet of refrigeration pipes

Pipe adapter (standard for Dbox)

3-year warranty



**DC INVERTER**

### OPTIONAL ACCESSORIES

BRANCH JOINTS  
MS-01BI



BRANCH JOINTS ARE USED FOR EQUAL DISTRIBUTION OF REFRIGERANT FROM OUTDOOR UNIT TO DISTRIBUTION BOXES.

## TECHNICAL PARAMETERS



MODEL		MS-E48AI	MS-E56AI
Qty of connectable indoor units	-	2-8	2-9
Total capacity index of to be connected indoor units	%	50-135	50-135
Cooling / Heating capacity	kW	14,0 (1,0-16,0) / 16,0 (1,2-17,4)	16,0 (1,0-18,0) / 18,0 (1,2-19,0)
Power supply	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415
Nominal power input cooling / heating	W	4400 / 4250	5000 / 4700
Rated power input / current	W/A	6000 / 12	6500 / 12
EER / COP	-	2,96 / 3,20	2,80 / 3,50
Air Flow Volume	m³/h	7000	7000
Sound pressure level	dB(A)	58	58
Refrigerant type / charge	Type / kg / t eq.CO <sub>2</sub>	R410A / 4,95 / 10,33	R410A / 4,95 / 10,33
Piping connections liquid / gas	mm	9,5 / 15,9	9,5 / 19,1
Max. total pipe length (ΣL+ΣA)	m	135	145
Max. total pipe length between OD and Dbox (ΣL)	m	55	55
Max. total pipe length between Dbox and ID (ΣA)	m	80	90
Pipe length between Dbox and ID (A1,2,...)	m	15	15
Max. height between OD and Dbox (H1) and ID (H2)	m	30	30
Max. height between DBoxes or IDs (H3)	m	15	15
Prefilled length of refrigerant pipe/ additional refrigerant	m	30 / depends on calculation	30 / depends on calculation
Dimensions (w x h x d)	mm	900x1345x340	900x1345x340
Package dimensions (w x h x d)	mm	983x1398x443	983x1398x443
Net/ gross weight	kg	116,0 / 125,0	116,0 / 125,0
Operation range cooling/ heating	°C (DB)	18~48/-10~24	18~48/-10~24

## DISTRIBUTION BOXES

### DB2-19SB, DB3-19SB, DB5-16AF



MODEL		DB2-19SB	DB3-19SB	DB5-16AF
Maximum number of connectable indoor units	-	2	3	5
Power Supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Connection port to outdoor unit liquid / gas	mm	9,7 / 19,3	9,7 / 19,3	9,7 / 16,3
Connection port to indoor unit liquid / gas	mm	2x 6,4 / 16,3	3x 6,4 / 16,3	5x 6,4 / 9,5
Connection Method	-	Braze	Braze	Flare
Sound pressure level	dB(A)	28	28	30
Unit dimensions / Package dimensions	mm	600x313x182 / 683x392x270	600x313x182 / 683x392x270	617x410x193 / 676x473x275
Net/ gross weight	kg	5,5 / 7,5	6,0 / 8,0	9,0 / 11,0

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Data are based on following conditions: Length of connection pipe: 5m. Cooling: indoor temperature 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB. Heating condition: indoor temperature 20°C DB/15°C WB, outdoor temperature 7°C DB/6°C WB. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual Operation due to environmental change. Power input is tested under standard condition.