DUCTED BLOWER SPLIT SYSTEM (H-SERIES)

MODEL			M5DB80H	M5DB100H	M5DB125H	M5DB150H	M5DB200H2
			M5MC80H	M5MC100H	M5MC125H	M5MC150H	M5MC100H x 2
NOMINAL CAPACITY		Btu/h	80000	100000	125000	150000	200000
		W	23400	29300	36600	44000	58600
NOMINAL EER		W/W	3.30	2.93	3.23	2.97	2.97
INDOOR	POWER SOURCE	V/Ph/Hz	220-240/1/50			380-415/3/50	
	AIR FLOW	CFM	2300 / 2200 / 2000	3000 / 2800 / 2500	3750	4500	6000
	EXTERNAL STATIC PRESSURE	Pa	100 / 95 / 80	100 / 85 / 70	150	150	150
	SOUND PRESSURE LEVEL	dBA	53 / 52 / 51	55 / 55 / 54	53	55	61
	HEIGHT	mm	553	553	776	776	885
	WIDTH	mm	1402	1402	1540	1540	1794
	DEPTH	mm	605	605	850	850	850
	UNIT WEIGHT	kg	83	84	159	159	196
OUTDOOR	POWER SOURCE	V/Ph/Hz			380-415/3/50		
	SOUND PRESSURE LEVEL	dBA	69	65	65	70	65
	HEIGHT	mm	929	1067	1067	1166	1067
	WIDTH	mm	1235	880	980	980	880
	DEPTH	mm	496	880	980	980	880
	UNIT WEIGHT	kg	111	135	157	177	135
	PIPE CONNECTION - LIQUID	mm/in	12.7 / ½	12.7 / ½	12.7 / ½	15.88 / ⅝	12.7 / ½
	PIPE CONNECTION - GAS	mm/in	22.23 / ⅞	25.40 / 1	28.58 / 1⅛	34.92 / 1 ⅜	25.40 / 1
	MAXIMUM ALLOWABLE LENGTH	m			75		
	MAXIMUM ALLOWABLE ELEVATION	m			30		
	REFRIGERANT CHARGE	kg	2.50	3.40	4.80	5.20	3.60 x 2

MODEL			M5DB250H2	M5DB300H2	M5DB300H3	M5DB350H3	
			M5MC125H x 2	M5MC150H x 2	M5MC100H x 3	M5MC100H	M5MC125H x 2
NOMINAL CAPACITY		Btu/h	250000	300000	300000	350000	
		W	73200	88000	88000	102500	
NOMINAL EER		W/W	3.07	2.88	2.96	2.97	
INDOOR	POWER SOURCE	V/Ph/Hz			380-415/3/50		
	AIR FLOW	CFM	7500	9000	9000	10500	
	EXTERNAL STATIC PRESSURE	Pa	200	200	200	200	
	SOUND PRESSURE LEVEL	dBA	63	66	66	66	
	HEIGHT	mm	1231	1231	1231	1486	
	WIDTH	mm	1766	1766	1766	2022	
	DEPTH	mm	1069	1069	1069	1069	
	UNIT WEIGHT	kg	323	337	337	431	
OUTDOOR	POWER SOURCE	V/Ph/Hz			380-415/3/50		
	SOUND PRESSURE LEVEL	dBA	65	70	65	65	65
	HEIGHT	mm	1067	1166	1067	1067	1067
	WIDTH	mm	980	980	880	880	980
	DEPTH	mm	980	980	880	880	980
	UNIT WEIGHT	kg	157	177	135	135	157
	PIPE CONNECTION - LIQUID	mm/in	12.7 / ½	15.88 / ⅝	12.7 / ½	12.7 / ½	12.7 / ½
	PIPE CONNECTION - GAS	mm/in	28.58 / 1⅛	34.92 / 1 ⅜	25.40 / 1	25.40 / 1	28.58 / 1⅛
	MAXIMUM ALLOWABLE LENGTH	m			75		
	MAXIMUM ALLOWABLE ELEVATION	m			30		
	REFRIGERANT CHARGE	kg	4.00 x 2	4.50 x 2	3.20 x 3	3.10	4.70 x 2

MODEL			M5DB400H4	M5DB450H3	M5DB500H4	M5DB600H4	M5DB750H5
			M5MC100H x 4	M5MC150H x 3	M5MC125H x 4	M5MC150H x 4	M5MC150H x 5
NOMINAL CAPACITY		Btu/h	400000	450000	500000	600000	750000
		W	117200	131900	146500	175850	219900
NOMINAL EER		W/W	2.98	2.87	2.93	2.85	2.80
INDOOR	POWER SOURCE	V/Ph/Hz			380-415/3/50		
	AIR FLOW	CFM	12000	13500	15000	18000	22500
	EXTERNAL STATIC PRESSURE	Pa	250	250	250	300	350
	SOUND PRESSURE LEVEL	dBA	66	68	68	70	71
	HEIGHT	mm	1486	1486	1486	1918	2197
	WIDTH	mm	2174	2174	2174	2174	2174
	DEPTH	mm	1336	1336	1336	1775	1775
	UNIT WEIGHT	kg	488	533	580	899	946
OUTDOOR	POWER SOURCE	V/Ph/Hz			380-415/3/50		
	SOUND PRESSURE LEVEL	dBA	65	70	65	70	70
	HEIGHT	mm	1067	1166	1067	1166	1166
	WIDTH	mm	880	980	980	980	980
	DEPTH	mm	880	980	980	980	980
	UNIT WEIGHT	kg	135	177	157	177	177
	PIPE CONNECTION - LIQUID	mm/in	12.7 / ½	15.88 / ⅝	12.7 / ½	15.88 / ⅝	15.88 / ⅝
	PIPE CONNECTION - GAS	mm/in	25.40 / 1	34.92 / 1⅜	28.58 / 1⅛	34.92 / 1⅜	34.92 / 1⅜
	MAXIMUM ALLOWABLE LENGTH	m			75		
	MAXIMUM ALLOWABLE ELEVATION	m			30		
	REFRIGERANT CHARGE	kg	3.40 x 4	4.60 x 3	4.53 x 4	4.70 x 4	4.50 x 5

NOTE :
1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
   COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) INDOOR SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8616 STANDARD.
   HORIZONTAL DISCHARGE : POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW THE UNIT.
   (WITH 1m DUCT CONNECT TO THE INLET AND 2m DUCT CONNECT TO THE OUTLET)
   VERTICAL DISCHARGE : POSITION OF THE MEASUREMENT POINT IS 1m AWAY FROM EVERY SIDE OF UNIT AND 1m ABOVE FLOOR LEVEL.
   (TESTED WITH 2m LENGTH DUCT AT DISCHARGE ONLY)

Product Overview

Indoor Units


M5DB80/100H


M5DB350H3


M5DB125/150H


M5DB400/500H4


M5DB200H2


M5DB450H3


M5DB250/300H2


M5DB600H4


M5DB300H3


M5DB750H5

Outdoor Units


M5MC80H


M5MC100/125/150H

DAIKIN
PT.DAIKIN APPLIED SOLUTIONS INDONESIA

Head Office:
Surabaya. Jl. Kayoon 42-44, Surabaya 60271, Indonesia | P. +62-31-547 8787, 532 5365 | F. +62-31-532 0049

Branch Office:
Jakarta. Wisma Keiai Building 19th Floor, Jl. Jenderal Sudirman Kavling 3 Jakarta 10220 – Indonesia
P. : +62 21 572 3322 (hunting) | F. +62 21 572 3323

Jakarta. Jl. Pancoran Barat VII, Duren Tiga, Jakarta 12760, Indonesia | P. +62-21-7919 2468 | F. +62-21-7919 2473

Medan. Jl. Pinang Baris No. 28, Komp. Imperium, Kel. Sunggal, Medan 20128, Sumatera Utara, Indonesia
P. +62-61-8002 5528, 8002 5828 | F. +62-61-8002 5628

Bali. Pertokoan Gunung Soputan Blok B, Jl. Gunung Soputan No. 11, Denpasar 80117, Indonesia
P. +62-361-485 854, 746 9449 | F. +62-361-485 854

Balikpapan. Sentra Eropa II AB - 5 No. 1 Balikpapan Baru, Kalimantan Timur, Indonesia
P. +62-542-720 4205, 721 2085 | F. +62-542-721 2087

Timika. Jl. Cendrawasih Jalur SP 2, Timika, Papua 99910, Indonesia | P. +62-901-323 817 | F. +62-901-323 817

www.daikinapplied.co.id

24 HOUR Call centre
021-794 3939

R410A

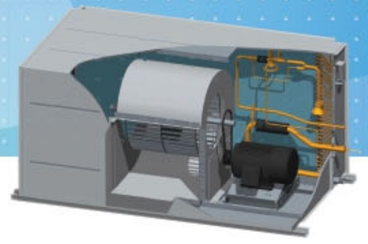
Brochure AP-M5DB-H-15

Ducted Blower Split System (H-series)

McQuay Air Conditioning

Another Quality Product by DAIKIN

R410A
Ducted Blower
H-series



R410A Green Refrigerant
H-series ducted blower using R410A faces no mandated phase-out date for equipment life expectancy. Using chlorine-free R410A with zero ODP helps protect both the environment and your investment.

Anti-corrosion Evaporator
M5DB-H models come standard with hydrophilic coating fin to ensure optimum system effectiveness and durability. The coils are tested against by Nitrogen holding at 609psig and highly precise Helium leak test at 235psig.

Fresh Air for Healthy Environment
Fresh air can be introduced into the building through the design of fresh air intakes. This will help to improve indoor air quality and prevent sick building syndrome.

Part Load Operation
M5DB200-750H uses more than one compressor. The modular unit configuration allows unit to operate under partial load condition to meet the required cooling capacity. When any unit is on standby for maintenance or repair, the other condensing units continue to function to cool the premise.

Rigid Foundation
H-series units are made of electro galvanized mild steel casing, which are coated with epoxy polyester for protection against corrosion.

High Efficiency Product Range
M5DB-H system provides excellent energy efficiency up to 3.30 W/W, which means lower energy consumption and operating cost.

Convertible Air Discharge
M5DBH models air discharge orientation can be converted to provide flexibility for different ducting applications.

* M5DB125-200H: Standard Horizontal
* M5DB250-750H: Standard Vertical

Flexibility for Air Supply
The non-standard air volume and external static pressure requirement can be adjusted by changing the factory fitted drive package in M5DB125-750H. This flexibility allows conditioned air to be distributed effectively for wider room application.

Auto Random Restart
In the event of a sudden power failure during operation, M5DB-H models will restart automatically and randomly based on last state setting. This ensures that air conditioners in the same building do not resume at the same time, thus preventing power surge after a blackout. Option is provided to disable this feature.

Durable Insulation
10mm thickness, fire-resistant Polyethylene, is used at every possible condensate panel to prevent all forms of moisture penetration. Its surface resists dirt tough and prohibit microbial growth.


SLIM8


Sequential Controller

Wired Controller
- Temperature Setting of 16°C to 30°C
- Fan Speed Setting (H/M/L/Auto)*
- Energy Saving Mode
- Self-diagnosis Error Code Display
- Key Lock Function
- Compressor Running Display**
- Real Time Clock with 7 Days Programmable Timer

* Applicable for SLIM8 with three fan speeds
** Applicable for Sequential Controller

R410A
Condensing Unit
H-series

Long Piping Up to 75m
H-series condensing unit allow maximum allowable piping length up to 75m, provide more design flexibility, which can match even large-sized buildings.

High Efficiency Scroll Compressor
The H-series is powered by highly energy efficient and reliable scroll type compressor, offering user the vital advantage of quiet operation, efficient cooling, minimal maintenance cost and lower energy consumption.

Service-friendly Design
The design of the condensing unit in the MCHX ducted systems range offer easy access to the compressor and control panel on the side. Fan motor assembly can be easily removable for service. Condenser coil is much easier to clean as it offers lower resistance to air flow and accumulates less dust.

Service Access Valve
Valves are provided on the pressure gauge installation at site as well as fan speed controller for low ambient application. The valves are easily accessible without opening the service panel.

Rigid Foundation
H-series units are made of electro galvanized mild steel casing, which coated with epoxy polyester for protection against corrosion.

Field-convertible Air Throw
Flexible discharge orientation (vertical or horizontal) to accommodate different product application.

* Applicable for M5MC100/125/150H

Condenser Fan Motor with High Index Protection
Condenser motor used in the M5MC-H is of IP55 insulation class rating. It is designed with a dust proof bearing to ensure the reliability of the motor and smooth operation all year round.

Robust, Long Life Microchannel Heat Exchanger
M5MC-H systems uses all aluminium microchannel condenser, which eliminate galvanic corrosion and more robust than traditional copper tube/aluminium fin coil. Microchannel condensers offers larger coil area for better heat exchange and uses considerably less volume, less weigh and requiring less refrigerant charge.

* E-coating spec is offered an optional for high corrosion resistant against aggressive outdoor environment.

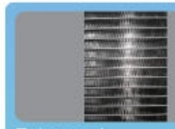
Safety Protection Features:
- Phase Sequential Protection
- High/Low Pressure Switch
- Compressor and Motor Current Overload Protection
- Minimum Compressor Run Time Protection

Design for Performance, Reliability and Sustainability

Microchannel At a Glance:
- Up to 50% less refrigerant, the key reduction in carbon footprint
- Up to 25% lighter for easy handling and quicker installation
- Up to 20% smaller for compact housing and save space
- With better heat transfer and lower power consumption, thus cheaper operating cost
- Lower rate of corrosion resulting in better reliability and longer life
- Service-friendly design with robust and rigid coil structure

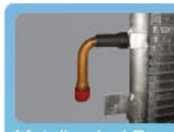
Strong Corrosion Resistant
The mono-metal aluminium MCHX coil eliminating the possibility of galvanic corrosion. The zinc-enriched tube surface prevents corrosion pits from spreading deeply into the tube without affecting the heat transfer.

Superior Heat Exchange Performance
H-series system performance is maximized via micro-multiport extrusion tube with increased heat transfer surface area between air and refrigerant. Up to 50% less refrigerant required to achieve the same level of performance. Brazed bond between fin and tube further maximizes conductive heat transfer.



Enhanced Serviceability
Flat geometry of MPE tubes reduced aerodynamic drag and air-side pressure drop at equal face velocity across the MCHX. One row coil design is less likely to clog and is more easily cleaned. No chemical wash is required help enhance coil durability, cleaning time and cost is reduced.

Structural Robustness
Reinforcement dummy tube placed at top and bottom protects the first and last functional tube. MCHX coil structure is robust and less susceptible to fin damage as compared to conventional tin plate coils. Appropriate pressure washing can be applied.



Metallurgical Bond Coil
H-series MCHX uses less brazed joints than the conventional copper tube/aluminium fin coil. The copper to aluminium transition is further protected with heat shrink sleeve to enhance corrosion resistant.

Vibration Absorption
Insulation is placed along the top and bottom MPE tube protect the coil from excessive vibration during transportation.