

HIGH CAPACITY SPLIT DUCT TYPE MUCHR-H14 Series

MUNDOCLIMA®
SUPER DC INVERTER



WDC3-86T
Included
(CL09221)



Models 68 to 120



Models 140 to 192



Drainage pump

Incorporates drainage pump to facilitate the drainage of the indoor unit.



Setpoint temperature range adjustment

The WDC3-86T wired remote control allows limiting the setpoint temperature.



Temperature compensation

The WDC3-86T remote control allows you to set the compensation temperature for heating and cooling mode.



Configurable static pressure

Through the new WDC3-86T wired remote control, you can adjust the static pressure of the fan automatically or manually, so you can adapt the machine to each installation.



Remote signals (CP)

The indoor unit has an ON/OFF input and an alarm and operation output.



Up to 400 Pa

Wide static pressure range.



Cooling in low temperatures

Cooling operation up to -15°C outdoor.



SUPER DC

Equipment that has both, DC Inverter compressor and DC fan motors.



Centralized controller CCM

Possibility to control several units from only one controller. The controller can directly control up to 64 units from different systems (optional).



Wi-Fi

Control your air conditioning equipment from anywhere.



Automatic restart

Recovery of the adjustments before the electrical cut.



Complete weekly timer

Sets the weekly operation of the unit.



Follow Me Function

The remote control incorporates an ambient temperature sensor.



Outdoor air inlet

Possibility of supplying outdoor air directly on the indoor unit.



Cold air protection

In heating, the initial fan speed is adjusted in accordance with the coil temperature.

WIRED WI-FI REMOTE CONTROL



WDC3-86T
Included
(CL09221)

MORE FUNCTIONS

The WDC3-86T wired remote control has a host of new functions and features, including:

- "Follow Me" Function
- Weekly timer (3 complete periods)
- Possibility to lock the keyboard
- Possibility of limiting the setpoint temperature range and the operating modes
- Displays error codes
- Backlit
- Built-in infrared receiver
- Parameter query and adjustment function
- Centralized control of up to 2 indoor units

MULTIPLE CONFIGURATIONS

It also allows the adjustment of different functions of the equipment.

Set the parameters as desired:

Function	Adjustment
Static pressure	Adjust the desired static pressure either manually or automatically.
Temperature Compensation	Adjust the value from -10°C to 10°C
Limitation of operating modes	Disable/enable an operating mode
Temperature range setting	From 17°C to 30°C:

ONLY 2 WIRES

Allows connection to the indoor unit by means of 2 wires without polarity.
(the use of shielded cable is recommended)

CONTROL YOUR EQUIPMENT FROM ANYWHERE

Thanks to the wireless connectivity via WiFi built into the wall control, you can control the air conditioner from anywhere.

Download the app



HIGH CAPACITY DUCT SPLIT TYPE H14



SPECIFICATIONS

Model			MUCHR-68-H14T	MUCHR-76-H14T	MUCHR-96-H14T	MUCHR-120-H14T	
Set code			CL21580	CL21581	CL21582	CL21583	
EAN set code			8432953058357	8432953058364	8432953058371	8432953058388	
Cooling (*1)	Nominal capacity	kW	20	22.4	28	33.5	
	Nominal rating	kW	5.93	7.57	13.8	15.83	
	Pdesignc (design load)	kW	20	22.4	28	33.5	
	SEER	W/W	7.16	6.85	5.94	6.35	
	Seasonal energy efficiency for space cooling	ηs,c (%)	283.4	271.0	234.6	251.0	
Heating (*2)	Nominal capacity	kW	20	22.4	28	33.5	
	Nominal rating	kW	5.21	6.1	8.39	10.04	
	Average climate zone	Pdesignh (design load)	kW	20	22.4	28	33.5
		SCOP	W/W	4.04	4.34	4.5	4.06
	Seasonal energy efficiency for space heating	ηs,h (%)	158.6	170.6	177.0	159.4	
Tbiv	°C	-7	-7	-7	-7		
Indoor unit	Model		MUCHR-68-H14-I	MUCHR-76-H14-I	MUCHR-96-H14-I	MUCHR-120-H14-I	
	Code		UI21580	UI21581	UI21582	UI21583	
	EAN Code		8432953058579	8432953058586	8432953058593	8432953058609	
	Air flow rate		m ³ /h	4700 / 4387 / 4073 / 3760 / 3447 / 3133 / 2820			
	Static pressure	Nominal	Pa	200	200	200	200
		Adjustable	Pa	0 ~ 400	0 ~ 400	0 ~ 400	0 ~ 400
	Sound pressure		dB (A)	51 / 50 / 48 / 46 / 44 / 43 / 42			52 / 51 / 49 / 48 / 46 / 44 / 43
	Sound power		dB (A)	74 / 72 / 70 / 68 / 66 / 64 / 62			74 / 72 / 70 / 68 / 66 / 63 / 61
	Drain connection (OD)		mm	Ø 32	Ø 32	Ø 32	Ø 32
	Pump height (*3)		mm	1200	1200	1200	1200
	Dimensions (Width x Height x Depth)		mm	1300 x 580 x 900	1300 x 580 x 900	1300 x 580 x 900	1300 x 580 x 900
Weight		kg	125	125	125	128	
Outdoor unit	Model		MUCHR-68-H14-E	MUCHR-76-H14-E	MUCHR-96-H14-E	MUCHR-120-H14-E	
	Code		UE21580	UE21581	UE21582	UE21583	
	EAN Code		8432953058463	8432953058470	8432953058487	8432953058494	
	Air flow (High)		m ³ /h	9,000	9,000	11,000	11,300
	Sound pressure (High)		dB (A)	58	58	60	61
	Sound power (High)		dB (A)	78	78	78	81
	Compressor (Brand / Model)			GMCC / ATQ580D66UNT	GMCC / ATQ580D66UNT	GMCC / ATQ580D66UNT	Mitsubishi Electric / LNB65FAGMC
	Dimensions (Width x Height x Depth)		mm	1120 x 1558 x 528	1120 x 1558 x 528	1120 x 1558 x 528	1120 x 1558 x 528
	Weight		kg	143	143	144	157
Refrigerant	Type / GWP		R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	
	Load		kg	6.5	6.5	6.5	8
	CO ₂ equivalence		TCO ₂ eq	13.572	13.572	13.572	16.704
	Preload until		m	0	0	0	0
Refrigeration pipes	Additional load (from 0m)		g/m	57	57	110	110
	Liquid	mm (inch)	3/8"	3/8"	1/2"	1/2"	
	Gas	mm (inch)	3/4"	3/4"	7/8"	1"	
	Maximum length (*4)		m	50	50	50	50
Maximum height (UE above)		m	25	25	25	25	
Electrical Data	Power supply	Indoor unit	V-Hz-Ph	220-240 ~ 50, 1N	220-240 ~ 50, 1N	220-240 ~ 50, 1N	220-240 ~ 50, 1N
		Outdoor unit	V-Hz-Ph	380-415 ~ 50, 3N	380-415 ~ 50, 3N	380-415 ~ 50, 3N	380-415 ~ 50, 3N
	Rated / max. intensity	Indoor unit	A	8.19 / 30	8.19 / 30	8.19 / 30	8.31 / 30
		Outdoor unit	A	19 / 25	19 / 25	21 / 25	26.4 / 32
	Power cable(*5)	Indoor unit	mm ²	2 x 4 + T	2 x 4 + T	2 x 4 + T	2 x 4 + T
Outdoor unit		mm ²	4 x 4 + T	4 x 4 + T	4 x 4 + T	4 x 6 + T	
Interconnection cable		mm ²	3 x 0.75 (shielded)	3 x 0.75 (shielded)	3 x 0.75 (shielded)	3 x 0.75 (shielded)	
Operating temperature	Indoor (Cooling / Heating)		°C	16 ~ 32 / 0 ~ 30	16 ~ 32 / 0 ~ 30	16 ~ 32 / 0 ~ 30	16 ~ 32 / 0 ~ 30
	Outdoor (Cooling / Heating)		°C	-5 ~ 48 / -20 ~ 24	-5 ~ 48 / -20 ~ 24	-5 ~ 48 / -20 ~ 24	-5 ~ 48 / -20 ~ 24

Notes:

(*1) Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, for pipe length of 7.5 m and a height difference of 0 m.

(*2) Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, for a pipe length of 7.5 m and a height difference of 0 m.

(*3) Maximum height measured from the unit's base. The elbow is set horizontally at 200 mm maximum.

(*4) Minimum pipe length: 3 m.

(*5) Recommended power wiring for L < 20 m should be calculated according to the conditions of each installation.

* The design and specifications are subject to change without prior notice for product improvement.

** The sound level values correspond to values obtained in an anechoic chamber.

SPECIFICATIONS

Model			MUCHR-140-H14T	MUCHR-150-H14T	MUCHR-192-H14T	
Set code			CL21584	CL21585	CL21586	
EAN set code			8432953058395	8432953058401	8432953058418	
Cooling (*1)	Nominal capacity	kW	40	45	56	
	Nominal rating	kW	19.71	20	30.03	
	Pdesignc (design load)	kW	40	45	56	
	SEER	W/W	6.19	6.05	5.93	
	Seasonal energy efficiency for space cooling	ηs,c (%)	244.6	239.0	234.2	
Heating (*2)	Nominal capacity	kW	40	45	56	
	Nominal rating	kW	12.84	13.95	17.12	
	Average climate zone	Pdesignh (design load)	kW	40	45	56
		SCOP	W/W	4.72	4.83	4.42
	Seasonal energy efficiency for space heating	ηs,h (%)	185.8	190.2	173.8	
	Tbiv	°C	-7	-7	-7	
Indoor unit	Model		MUCHR-140-H14-I	MUCHR-150-H14-I	MUCHR-192-H14-I	
	Code		UI21584	UI21585	UI21586	
	EAN Code		8432953058616	8432953058623	8432953058630	
	Air flow rate	m³/h	7500 / 7000 / 6500 / 6000 / 5500 / 5000 / 4500		8400 / 7840 / 7280 / 6720 / 6160 / 5600 / 5040	
	Static pressure	Nominal	Pa	300	300	300
		Adjustable	Pa	0 ~ 400	0 ~ 400	0 ~ 400
	Sound pressure	dB (A)	58 / 56 / 54 / 52 / 50 / 49 / 48		59 / 58 / 56 / 54 / 53 / 51 / 49	
	Sound power	dB (A)	79 / 78 / 76 / 74 / 72 / 70 / 67		81 / 80 / 77 / 75 / 73 / 71 / 69	
	Drain connection (OD)	mm	Ø 32	Ø 32	Ø 32	
	Pump height (*3)	mm	1200	1200	1200	
	Dimensions (Width x Height x Depth)	mm	1850 x 580 x 900	1850 x 580 x 900	1850 x 580 x 900	
Weight	kg	166	166	170		
Outdoor unit	Model		MUCHR-140-H14-E	MUCHR-150-H14-E	MUCHR-192-H14-E	
	Code		UE21584	UE21585	UE21586	
	EAN Code		8432953058500	8432953058517	8432953058524	
	Air flow (High)	m³/h	12,500	18,500	18,500	
	Sound pressure (High)	dB (A)	59	60	61	
	Sound power (High)	dB (A)	82	86	89	
	Compressor (Brand / Model)		GMCC / SAVC060D11ULKB4	GMCC / SAVC070D44ULKB4.5	HITACHI / DE98PHDGD1Y2 5.5	
	Dimensions (Width x Height x Depth)	mm	1130 x 1760 x 580	1250 x 1760 x 580	1250 x 1760 x 580	
Weight	kg	187	214	234		
Refrigerant	Type / GWP		R410A / 2088	R410A / 2088	R410A / 2088	
	Load	kg	7.4	8	8.5	
	CO ₂ equivalence	TCO ₂ eq	15.451	16.704	17.748	
	Preload until	m	0	0	0	
	Additional load (from 0m)	g/m	110	170	170	
Refrigeration pipes	Liquid	mm (inch)	1/2"	5/8"	5/8"	
	Gas	mm (inch)	1"	1 1/8"	1 1/8"	
	Maximum length (*4)	m	70	70	70	
	Maximum height (UE above)	m	30	30	30	
Electrical Data	Power supply	Indoor unit	V-Hz-Ph	220-240 ~ 50, 1N	220-240 ~ 50, 1N	220-240 ~ 50, 1N
		Outdoor unit	V-Hz-Ph	380-415 ~ 50, 3N	380-415 ~ 50, 3N	380-415 ~ 50, 3N
	Rated / max. intensity	Indoor unit	A	12.98 / 30	12.98 / 30	15.49 / 30
		Outdoor unit	A	28 / 32	30 / 40	40 / 50
	Power cable(*5)	Indoor unit	mm²	2 x 4 + T	2 x 4 + T	2 x 4 + T
		Outdoor unit	mm²	4 x 6 + T	4 x 10 + T	4 x 10 + T
Interconnection cable	mm²	3 x 0.75 (shielded)	3 x 0.75 (shielded)	3 x 0.75 (shielded)		
Operating temperature	Indoor (Cooling / Heating)	°C	16 ~ 32 / 0 ~ 30	16 ~ 32 / 0 ~ 30	16 ~ 32 / 0 ~ 30	
	Outdoor (Cooling / Heating)	°C	-15 ~ 55 / -30 ~ 30	-15 ~ 55 / -30 ~ 30	-15 ~ 55 / -30 ~ 30	

Notes:

(*1) Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, for pipe length of 7.5 m and a height difference of 0 m.

(*2) Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, for a pipe length of 7.5 m and a height difference of 0 m.

(*3) Maximum height measured from the unit's base. The elbow is set horizontally at 200 mm maximum.

(*4) Minimum pipe length: 3 m.

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HIGH CAPACITY DUCT SPLIT TYPE H14



ELECTRICAL WIRING

Model	Power Supply (outdoor unit)		Power Supply (indoor unit)		Interconnection (B) ^(*)	Connection wired control (E)
	Type	Section (A)	Type	Section (A)		
MUCHR-68-H14T	380-415 ~ 50, 3N	4 x 4 + T (mm ²)	220-240 ~ 50, 1N	2 x 4 + T (mm ²)	3 x 0.75 + T (mm ²)	2 x 0.75 + T (mm ²)
MUCHR-76-H14T	380-415 ~ 50, 3N	4 x 4 + T (mm ²)	220-240 ~ 50, 1N	2 x 4 + T (mm ²)	3 x 0.75 + T (mm ²)	2 x 0.75 + T (mm ²)
MUCHR-96-H14T	380-415 ~ 50, 3N	4 x 4 + T (mm ²)	220-240 ~ 50, 1N	2 x 4 + T (mm ²)	3 x 0.75 + T (mm ²)	2 x 0.75 + T (mm ²)
MUCHR-120-H14T	380-415 ~ 50, 3N	4 x 6 + T (mm ²)	220-240 ~ 50, 1N	2 x 4 + T (mm ²)	3 x 0.75 + T (mm ²)	2 x 0.75 + T (mm ²)
MUCHR-140-H14T	380-415 ~ 50, 3N	4 x 6 + T (mm ²)	220-240 ~ 50, 1N	2 x 4 + T (mm ²)	3 x 0.75 + T (mm ²)	2 x 0.75 + T (mm ²)
MUCHR-150-H14T	380-415 ~ 50, 3N	4 x 10 + T (mm ²)	220-240 ~ 50, 1N	2 x 4 + T (mm ²)	3 x 0.75 + T (mm ²)	2 x 0.75 + T (mm ²)
MUCHR-192-H14T	380-415 ~ 50, 3N	4 x 10 + T (mm ²)	220-240 ~ 50, 1N	2 x 4 + T (mm ²)	3 x 0.75 + T (mm ²)	2 x 0.75 + T (mm ²)

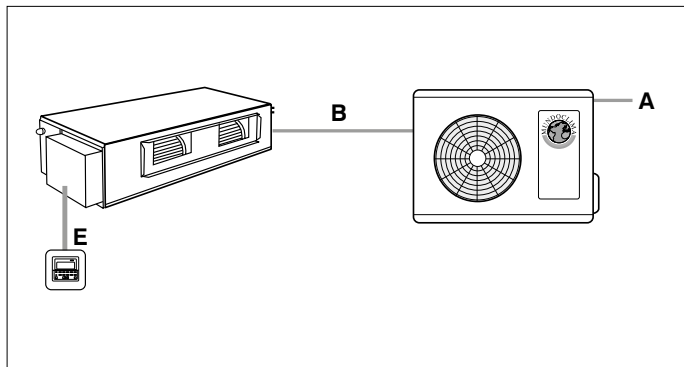
Notes:

(*) Models from 140 to 192, it is necessary to change to PQE communication protocol (parameter n4-5 in the EU, change it to 1).

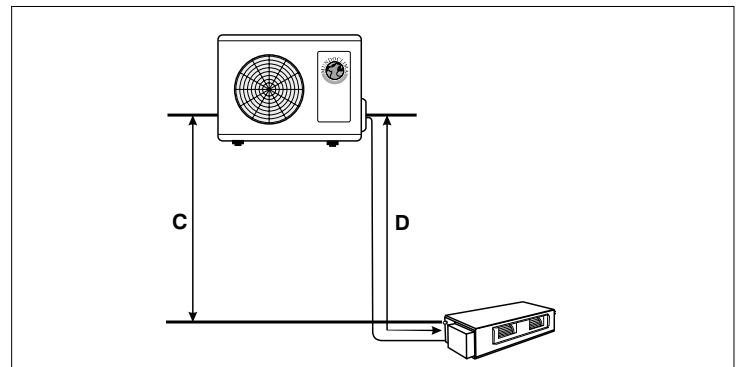
REFRIGERATION PIPES AND ADDITIONAL CHARGE (R-410A)

Model	Pipe		Max. distance		Additional refrigerant charge	Preload until
	Liquid	Gas	Vertical (C)	Total (D)		
MUCHR-68-H14T	3/8"	3/4"	25	50	57 g/m	0 m
MUCHR-76-H14T	3/8"	3/4"	25	50	57 g/m	0 m
MUCHR-96-H14T	1/2"	7/8"	25	50	110 g/m	0 m
MUCHR-120-H14T	1/2"	1"	25	50	110 g/m	0 m
MUCHR-140-H14T	1/2"	1"	30	70	110 g/m	0 m
MUCHR-150-H14T	5/8"	1 1/8"	30	70	170 g/m	0 m
MUCHR-192-H14T	5/8"	1 1/8"	30	70	170 g/m	0 m

ELECTRICAL WIRING



REFRIGERATION PIPES AND ADDITIONAL CHARGE (R-410A)



OPTIONALS

More information on optionals in "MUNDOCLIMA CONTROL SYSTEMS"

Wireless control



RM12F (CL09101)

Centralized controller



CCM180A/WS (CL09300)



CCM-15(A) (CL92872)

BMS



IMMP-BAC(A) (CL09303)

Software control



IMMP-S(A) (CL97825)

Wattmeter



DTS343-3 (CL09431)