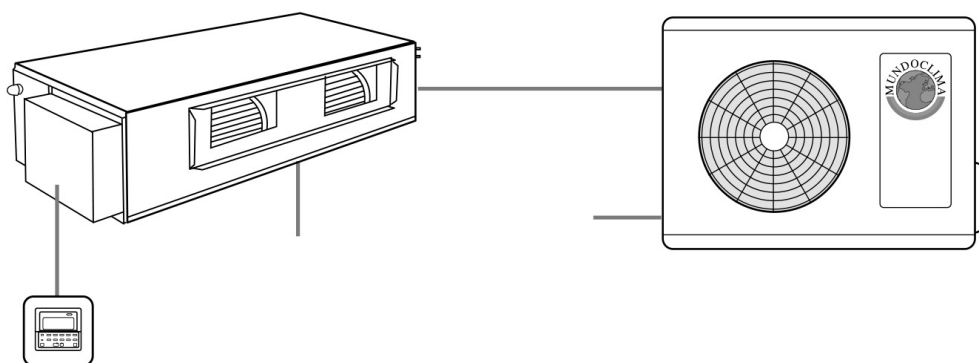


PRE-INSTALLATION





DOMESTIC RANGE

1 x 1 WALL SPLIT

MUPR-H10X (CL20030 to CL20033)

MUPR-H11 (CL20055 to CL20058)

COOLING INSTALLATION

Model	Pipe		Max. length (m)	Max. height difference (m)	Preload up to (m)	Additional Charge (R32) (g/m)
	Liquid	Gas				
09	1/4"	3/8"	25	10	5	12
12	1/4"	3/8"	25	10	5	12
18	1/4"	1/2"	30	20	5	12
24	3/8"	5/8"	50	25	5	24

ELECTRICAL INSTALLATION

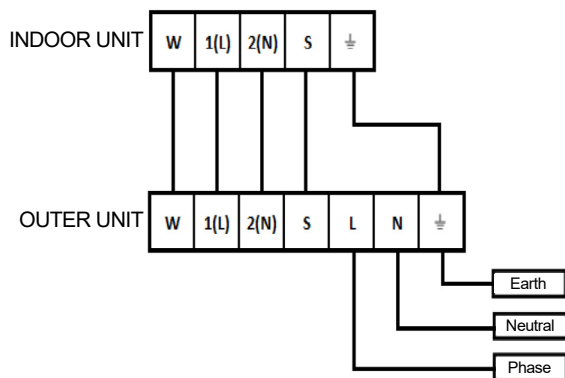
Model	Power supply (Outdoor only)	Interconnection
09	2 x 2,5 + T	4 x 2,5 + T
12	2 x 2,5 + T	4 x 2,5 + T
18	2 x 2,5 + T	4 x 2,5 + T
24	2 x 4 + T	4 x 4 + T

WIFI MODULE (Optional)

Model	Code
09	CL 09 001
12	
18	
24	

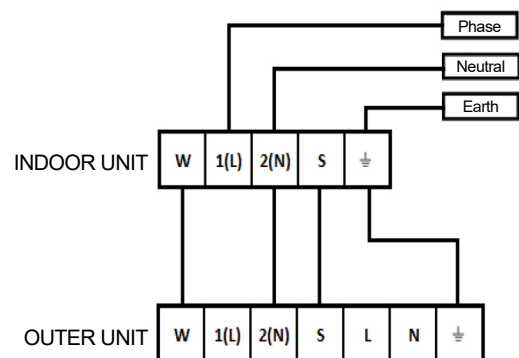
Option 1 (Recommended)

Power supply through the outdoor unit:



Option 2 (Only when it is impossible to connect to the outside unit)

Power supply through the indoor unit:





DOMESTIC RANGE

MULTI SPLIT

H11 SERIES

(CL21400 to CL21412; UI20055 to UI20058; UI20030 to UI20033; UI21520 to UI21522;

COOLING INSTALLATION

OUTDOOR UNIT

Model	Pipe		Max. length (m)		Max. height difference (m)		Preload(m)		Additional Charge (R32) (g/m)	
	Liquid	Gas	Total	By IU	Upper OU	AU Down.	Total pipes 1/4"	Total pipe 3/8"	Pipes 1/4"	Pipe 3/8"
MUEX-14	(1/4") x 2	(3/8") x 2	40	25	15	15	15	--	12	--
MUEX-18	(1/4") x 2	(3/8") x 2	40	25	15	15	15	--	12	--
MUEX-21	(1/4") x 3	(3/8") x 3	60	30	15	15	22,5	--	12	--
MUEX-27	(1/4") x 3	(3/8") x 3	60	30	15	15	22,5	--	12	--
MUEX-28	(1/4") x 3 (1/4") x 1	(3/8") x 3 (1/2") x 1	80	35	15	15	30	7,5	12	24
MUEX-36	(1/4") x 3 (1/4") x 1	(3/8") x 3 (1/2") x 1	80	35	15	15	30	7,5	12	24
MUEX-42	(1/4") x 4 (1/4") x 1	(3/8") x 4 (1/2") x 2	80	35	15	15	37,5	7,5	12	24

INDOOR UNIT

Model	Pipe	
	Liquid	Gas
09 and 12	1/4"	3/8"
18	1/4"	1/2"
24	3/8"	5/8"

Note 1: In MULTI systems the pipe diameter is determined by the indoor unit. If the pipe does not match any of the outdoor unit outlets, the connection on the outdoor unit must be adapted.

ELECTRICAL INSTALLATION

Model	Power supply (Outdoor only)	Interconnection
MUEX-14	2 x 2,5 + T	(3 X 1,5 + T) x Indoor unit
MUEX-18	2 x 2,5 + T	(3 X 1,5 + T) x Indoor unit
MUEX-21	2 x 2,5 + T	(3 X 1,5 + T) x Indoor unit
MUEX-27	2 x 2,5 + T	(3 X 1,5 + T) x Indoor unit
MUEX-28	2 x 4 + T	(3 X 1,5 + T) x Indoor unit
MUEX-36	2 x 4 + T	(3 X 1,5 + T) x Indoor unit
MUEX-42	2 x 4 + T	(3 X 1,5 + T) x Indoor unit

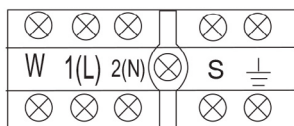
WIFI MODULE (Optional)

Model	Code
MUPR-H11-I MUPR-H10X-I MUCNR-H11-I	CL 09 001
MUCSR-H11-I MUCR-H11-I	CL 09 211 / CL 09 214

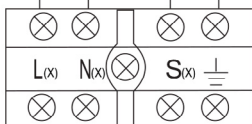
a) Split Wall

MUPR-09/12/18/24-H11-I
MUPR-09/12/18/24-H10X-I

Indoor Unit Terminals



Empty

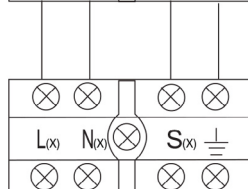
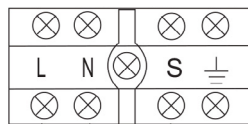


Outdoor Unit Terminals

b) Duct AND Cassette (Compact)

MUCR-12/18-H11-I ; MUCR-12/18/24-H11-I

Indoor Unit Terminals

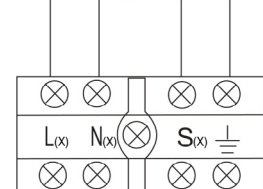
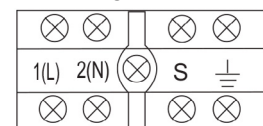


Outdoor Unit Terminals

c) Cassette and CONSOLE

MUCSR-24-H11-I ; MUCNR-H11-I

Indoor Unit Terminals



Outdoor Unit Terminals

Note:

1. In indoor units that have a **W** connection terminal, this should be left unconnected.
2. The communication cable for each indoor unit must be 3 x 1,5 + T mm².
3. "X" corresponds to the outlet where the pipes (A, B, C, D, E) are connected.



COMMERCIAL RANGE

CASSETTE: MUCSR-H11 (CL21500 to CL21508)

FLOOR/CEILING: MUSTR-H11 (CL21511 to CL20518)

DUCT: MUCR-H11 (CL21520 to CL20528)

COLUMN: MUCOR-H11 (CL21536-CL21537)

CONSOLE: MUCNR-H11 (CL21530-CL21531)

COOLING INSTALLATION

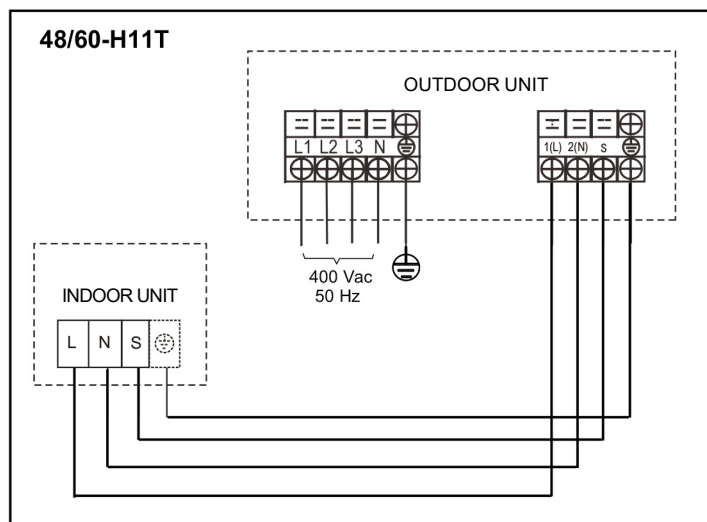
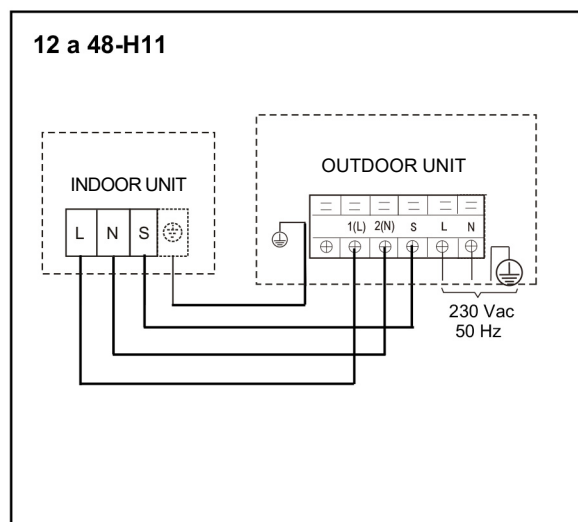
Model	Pipe		Max. length (m)	Max. height difference (m)	Additional Load (R32) (g/m)	Preload up to (m)
	Liquid	Gas				
12-H11	1/4"	3/8"	25	10	12	5
18-H11	1/4"	1/2"	30	20	12	5
24-H11	3/8"	5/8"	50	25	12	5
30-H11	3/8"	5/8"	50	25	24	5
36-H11	3/8"	5/8"	75	30	24	5
42-H11	3/8"	5/8"	75	30	24	5
48-H11	3/8"	5/8"	75	30	24	5
48-H11T	3/8"	5/8"	75	30	24	5
60-H11T	3/8"	5/8"	75	30	24	5

ELECTRICAL INSTALLATION

Model	Power supply				Intercon.
	Unit	Phases	Indoor	Outdoor	
12-H11	OUTD.	1-PHASE	--	2 x 2,5 + T	3 x 1,5 + T
18-H11	OUTD.	1-PHASE	--	2 x 2,5 + T	3 x 1,5 + T
24-H11	OUTD.	1-PHASE	--	2 x 2,5 + T	3 x 1,5 + T
30-H11	OUTD.	1-PHASE	--	2 x 4 + T	3 x 1,5 + T
36-H11	OUTD.	1-PHASE	--	2 x 4 + T	3 x 1,5 + T
42-H11	OUTD.	1-PHASE	--	2 x 6 + T	3 x 1,5 + T
48-H11	OUTD.	1-PHASE	--	2 x 6 + T	3 x 1,5 + T
48-H11T	OUTD.	3-PHASE	--	4 x 2,5 + T	3 x 1,5 + T
60-H11T	OUTD.	3-PHASE	--	4 x 2,5 + T	3 x 1,5 + T

WIFI MODULE (Optional)

Model	Code
MUCSR-H11	CL 09 211 / CL 09 214
MUCR-H11	
MUSTR-H11	
MUCNR-H11	CL 09 001





COMMERCIAL RANGE

TWIN 2X1 CASSETTE: MUCSR-H11T (CL21901 to CL21902)

TWIN 2X1 FLOOR/CEILING: MUSTR-H11 (CL21903 to CL21904)

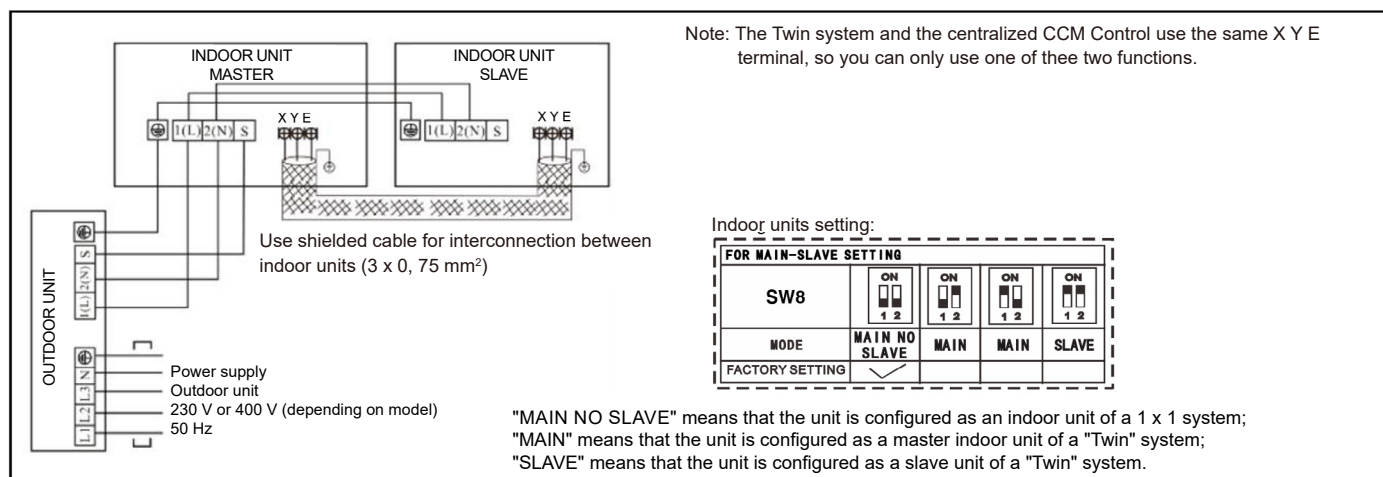
TWIN 2X1 DUCT: MUCR-H11 (CL21906 to CL21909)

ELECTRICAL INSTALLATION

Model	Power supply				Interconnection bt. Outd. / Master	Cables bt. indoor units (Master / Slave)
	Unit	Phase	Indoor Units	Outdoor		
12 x 2	OUTD.	1-PHASE	--	2 x 2,5 + T	3 x 1,5 + T	3 x 0,75 (shielded) + 2 x 1,5 + T
18 x 2	OUTD.	1-PHASE	--	2 x 4 + T	3 x 1,5 + T	3 x 0,75 (shielded) + 2 x 1,5 + T
24 x 2	OUTD.	3-PHASE	--	4 x 2,5 + T	3 x 1,5 + T	3 x 0,75 (shielded) + 2 x 1,5 + T
30 x 2	OUTD.	3-PHASE	--	4 x 2,5 + T	3 x 1,5 + T	3 x 0,75 (shielded) + 2 x 1,5 + T

Note: The outdoor unit interconnection is wired to the Master indoor unit and from this to the Slave indoor unit, you will also have to link the PQE between the Master and Slave units.

Note: For shielded cable see EM05310 and EM05311.



COOLING INSTALLATION

Model	Pipe				Max. length total	Length bt. Ind. ut. and Dist.	Difference in length bt. ind. uts.	Max. height difference	Height difference bt. indoor uts..	Additional Charge (g/m)	Preload up to (m)
	Outdoor Ut. till Dist.		Indoor Ut. till Dist.								
	Liq.	Gas	Liq.	Gas							
12 x 2	3/8"	5/8"	1/4"	3/8"	50	15	10	20	0,5	24	5
18 x 2	3/8"	5/8"	1/4"	1/2"	50	15	10	20	0,5	24	5
24 x 2	3/8"	5/8"	3/8"	5/8"	65	15	10	20	0,5	24	5
30 x 2	3/8"	5/8"	3/8"	5/8"	65	15	10	20	0,5	24	5

Note: Indoor units should have a similar pipe length with respect to the distributor.

The distributor should be installed horizontally, the angle should not exceed $\pm 10^\circ$ otherwise it may cause malfunctions.



COMMERCIAL RANGE

HIGH CAPACITY DUCT: MUCHR-H7T (CL21532 to CL21533)

ELECTRICAL INSTALLATION

Model	Power supply				Intercon. (P, Q, E)
	Unit	Phase	Indoor	Outdoor	
MUCHR-75 / 96-H7T	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 6 + T	3 x 0,75 (shielded)

Note: For shielded cable see EM05310 and EM05311.

COOLING INSTALLATION

Model	Pipe		Max. length (m)	Max. height difference (m)	Additional Load (R410A) (g/m)	Preload up to (m)
	Liquid	Gas				
MUCHR-75 / 96-H7T	3/8"	1"	50	25 / 30	30	5

Note: The max. height difference is 25 m if the outdoor unit is higher than the indoor unit and 30 m if it is lower than the indoor unit.

HIGH CAPACTIY DUCT: MUCHR-H8 (CL23918)

ELECTRICAL INSTALLATION

Model	Power supply				Intercon. (P, Q, E)
	Unit	Phase	Indoor	Outdoor	
MUCHR-40-H8	INT / OUTD.	1 / 3 PHASE	2 x 4 + T	4 x 25 + T	3 x 0,75 (shielded)

COOLING INSTALLATION

Model	Pipe		Max. length (m)	Max. height difference (m)	Additional Load (R410A) (g/m)	Preload up to (m)
	Liquid	Gas				
MUCHR-40-H8	1/2"	1"	100	20 / 25	110	0

Note: The max. height difference is 20 m if the outdoor unit is higher than the indoor unit and 25 m if it is lower than the indoor unit.

- Before starting up the equipment (and without power supply), you have to set the whole micro-switch S6 in OFF position in the outdoor unit.
- For shielded cable see EM05310 and EM05311.

HIGH CAPACTIY DUCT: MUCHR-HV6X (CL23941 to CL23944 - CL23949) MUCHR-HV6M (CL23945 to CL23948)

ELECTRICAL INSTALLATION

Model	Power supply				Intercon. (P, Q, E)
	Unit	Phase	Indoor	Outdoor	
MUCHR-28-HV6X	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 6 + T	3 x 0,75 (shielded)
MUCHR-33-HV6X	INT/OUTD.	1 / 3 PHASE	2 x 4 + T	4 x 6 + T	3 x 0,75 (shielded)
MUCHR-40-HV6X	INT/OUTD.	1 / 3 PHASE	2 x 4 + T	4 x 10 + T	3 x 0,75 (shielded)
MUCHR-45-HV6X	INT/OUTD.	1 / 3 PHASE	2 x 4 + T	4 x 10 + T	3 x 0,75 (shielded)
MUCHR-56-HV6X	INT/OUTD.	1 / 3 PHASE	2 x 4 + T	4 x 16 + T	3 x 0,75 (shielded)
MUCHR-20-HV6M	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)
MUCHR-22-HV6M	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)
MUCHR-26-HV6M	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)
MUCHR-28-HV6M	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)

Note: Power wiring recommended for length < 20 m, for longer distances it should be recalculated.

- For shielded cable see EM05310 and EM05311.

COOLING INSTALLATION

Model	Pipe		Max. length (m)	Max. height difference (m)	Additional Load (R410A) (g/m)	Preload (m)
	Liquid	Gas				
MUCHR-28-HV6X	1/2"	7/8"	175	90	57	0
MUCHR-33-HV6X	5/8"	1-1/8"	175	90	57	0
MUCHR-40-HV6X	5/8"	1 1/8"	175	90	110	0
MUCHR-45-HV6X	5/8"	1 1/8"	175	90	110	0
MUCHR-56-HV6X	5/8"	1 1/8"	175	90	170	0
MUCHR-20-HV6M	3/8"	7/8"	150	50	57	0
MUCHR-22-HV6M	3/8"	7/8"	150	50	57	0
MUCHR-26-HV6M	3/8"	7/8"	150	50	57	0
MUCHR-28-HV6M	3/8"	7/8"	150	50	57	0

Note: Pipe lengths when outdoor the outdoor unit is installed lower than the indoor units.



COMMERCIAL RANGE

HIGH CAPACITY DUCT: MUCHR-HV8M (CL23954 to CL23956)

ELECTRICAL INSTALLATION

Model	Power supply				Intercon. (P, Q, E)
	Unit	Phase	Indoor	Outdoor	
MUCHR-40-HV8M	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 6 + T	3 x 0,75 (shielded)
MUCHR-45-HV8M	INT/OUTD.	1 / 3 PHASE	2 x 4 + T	4 x 6 + T	3 x 0,75 (shielded)
MUCHR-56-HV8M	INT/OUTD.	1 / 3 PHASE	2 x 4 + T	4 x 10 + T	3 x 0,75 (shielded)

Note: Power wiring recommended for length < 20 m, for longer distances it should be recalculated.

- For shielded cable see EM05310 and EM05311.

COOLING INSTALLATION

Model	Pipe		Max. length (m)	Max. height difference (m)	Additional Load (R410A) (g/m)	Preload up to (m)
	Liquid	Gas				
MUCHR-40-HV8M	1-1/8	5/8"	150	50	170	0
MUCHR-45-HV8M	1-1/8	5/8"	150	50	170	0
MUCHR-56-HV8M	1-1/8	5/8"	150	50	170	0

Note: Pipe lengths when the outdoor unit is installed higher than the indoor units.



COMMERCIAL RANGE

CENTRIFUGAL OUTDOOR UNIT DUCT: HIDEN series (CL23895 to CL23897)

ELECTRICAL INSTALLATION

Model	Power supply				Intercon. (P, Q, E)
	Unit	Phase	Indoor	Outdoor	
MUCR-14-MVH	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)
MUCR-15-MVH	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)
MUCR-22-MVH	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 6 + T	3 x 0,75 (shielded)

Note: Power wiring recommended for length < 20 m, for longer distances it should be recalculated.

- For shielded cable see EM05310 and EM05311.

COOLING INSTALLATION

Model	Pipe		Max. length (m)	Max. height difference (m)	Additional Load (R410A) (g/m)	Preload up to (m)
	Liquid	Gas				
MUCR-14-MVH	3/8"	5/8"	60	30	40	0
MUCR-15-MVH	3/8"	5/8"	60	30	40	0
MUCHR-2-MVH	3/8"	7/8"	60	30	40	0

Note: The max. height difference is 30 m if the outdoor unit is higher than the indoor unit.

1x1 and 2x1 CENTRIFUGAL CASSETTE OUTDOOR UNIT: HIDEN series (CL23891 to CL23894)

ELECTRICAL INSTALLATION

Model	Power supply				Intercon. (P, Q, E)
	Unit	Phases	Indoor	Outdoor	
MUCSR-14-MVH	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)
MUCSR-16-MVH	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)
MUCSR-8X2-MVH	INT/OUTD.	1 / 3 PHASE	2 x 2,5 + T	4 x 4 + T	3 x 0,75 (shielded)

Note: Power wiring recommended for length < 20 m, for longer distances it should be recalculated.

- For shielded cable see EM05310 and EM05311.

COOLING INSTALLATION

Model	Pipe		Max. length (m)	Max. height difference (m)	Additional Charge (R410A) (g/m)	Preload up to (m)
	Liquid	Gas				
MUCSR-14-MVH	3/8"	5/8"	60	30	40	0
MUCSR-16-MVH	3/8"	5/8"	60	30	40	0

Model	Pipe				Max. length total	Length bt. Ind. ut. and Dist.	Max. height difference	Height difference bt. indoor uts..	Additional Charge (g/m)	Preload up to (m)
	Outdoor Ut. till Dist.		Indoor Ut. till Dist.							
	Liq.	Gas	Liq.	Gas						
MUCSR-8X2-MVH	3/8"	3/4"	3/8"	5/8"	100	20	30	8	40	0

Note: The max. height difference is 30 m if the outdoor unit is higher than the indoor unit.

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