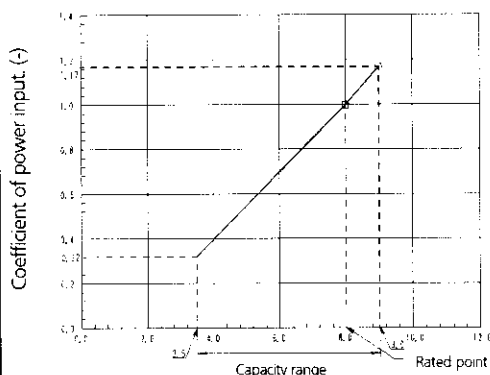


5 Capacity tables

5 - 3 Heating capacity tables

RZQ71B8V3 (Pair + Multi)

Heating



Heating capacity 230V [50Hz]

Indoor EDB (°C)	Outdoor temp. (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	5.14	1.06	5.68	1.12	6.22	1.17	6.75	1.23	8.02	0.92	8.64	0.97
18.0	5.14	1.10	5.67	1.16	6.21	1.22	6.74	1.28	8.01	0.96	8.62	1.01
20.0	5.13	1.15	5.67	1.21	6.20	1.27	6.74	1.33	8.00	1.00	8.61	1.05
21.0	5.13	1.17	5.66	1.23	6.20	1.29	6.73	1.35	8.00	1.02	8.61	1.07
22.0	5.12	1.19	5.66	1.25	6.19	1.32	6.73	1.38	7.99	1.04	8.60	1.09
24.0	5.12	1.23	5.65	1.30	6.19	1.36	6.72	1.43	7.98	1.08	8.59	1.13

3D048602A

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark ○ show the max. at standard conditions.
On the figure the mark ● show rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- On the tables ● show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB
 $SHC^* = SHC \text{ correction for other dry bulb}$
 $SHC^* = 0.02 \times AFR (m^3/min.) \times (1 - BF) \times (DB^* - EDB)$
 Add SHC* to SHC.
- Capacities are based on following conditions:
 Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
 Corresponding refrigerant piping length : 7.5 m
 Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

Pair

Model	FCQ71D	FCQ71B	FBQ71	FHQ71	FAQ71	FUQ71
AFR	19	18	19	17	19	19
(BF)	(0.10)	(0.10)	(0.11)	(0.10)	(0.08)	(0.07)

- Rated power input of each model is tabulated below.

Pair

Model	FCQ71D	FCQ71B	FBQ71	FHQ71	FAQ71	FUQ71
Cooling	1.98	2.16	2.21	2.46	2.36	2.21
Heating	1.97	2.56	2.09	2.67	2.42	2.34

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

Caution:

TC and SHC are shown by kW

Multi

Model	FCQ35Bx2	FFQ35x2	FBQ35x2	FHQ35x2
AFR	14x2	10x2	11.5x2	13x2
(BF)	(0.16x2)	(0.25x2)	(0.15x2)	(0.2x2)

Multi

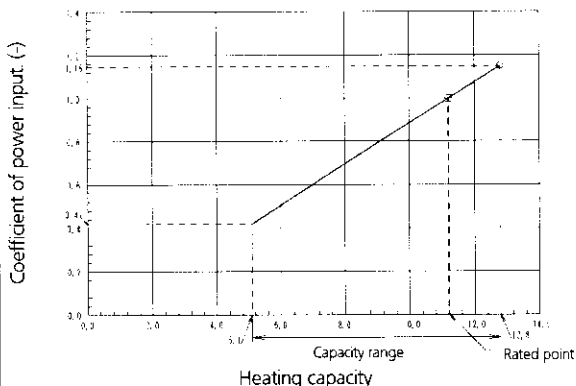
Model	FCQ35Bx2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	2.27	2.29	2.25	2.53
Heating	2.69	2.64	2.20	2.81

5 Capacity tables

5 - 3 Heating capacity tables

RZQ100B8V3 (Pair + Twin/triple)

Heating



Heating capacity

230V [50Hz]

Indoor EDB (°C)	Outdoor temp. (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	7.16	1.01	7.91	1.07	8.66	1.12	9.41	1.17	11.2	0.92	12.1	0.97
18.0	7.15	1.05	7.90	1.11	8.65	1.16	9.39	1.22	11.2	0.96	12.1	1.01
20.0	7.15	1.09	7.89	1.15	8.64	1.21	9.38	1.27	11.2	1.00	12.1	1.05
21.0	7.14	1.12	7.89	1.17	8.63	1.23	9.38	1.29	11.2	1.02	12.1	1.07
22.0	7.14	1.14	7.88	1.20	8.63	1.26	9.37	1.32	11.2	1.04	12.0	1.09
24.0	7.13	1.18	7.87	1.24	8.62	1.30	9.36	1.36	11.2	1.08	12.0	1.13

3D048603

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark ○ show the max. at standard conditions.
On the figure the mark — show rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- On the tables — show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB.
SHC* = SHC correction for other dry bulb.
SHC* = $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB*} - \text{EDB})$
Add SHC* to SHC.
- Capacities are based on following conditions:
Outdoor air : 85 % RH, however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR	30	28	27	24	23	29
(BF)	(0.11)	(0.16)	(0.20)	(0.14)	(0.10)	(0.07)

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
AFR	15x2	12x2	14x2	13x2
(BF)	(0.16x2)	(0.16x2)	(0.15x2)	(0.1x2)

- Rated power input of each model is tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.86	3.15	2.78	3.12
Heating	2.56	3.14	3.00	3.60	3.39	3.28

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input	(-)

Caution:
TC and SHC are shown by kW

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR	14x3	10x3	11.5x3	13x3
(BF)	(0.16x3)	(0.25x3)	(0.15x3)	(0.2x3)

Triple

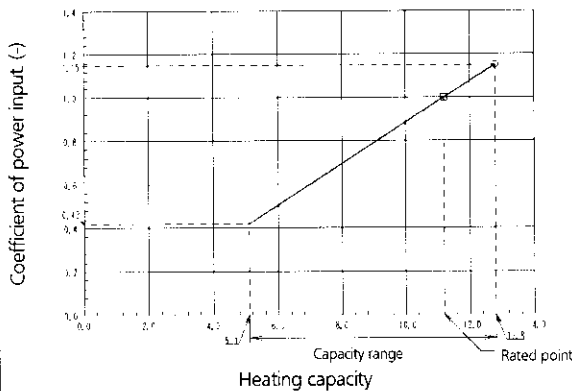
Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

5 Capacity tables

5 - 3 Heating capacity tables

RZQ100BW1 (Pair + Twin/triple)

Heating



Heating capacity

400V [50Hz]

Indoor EDB (°C)	Outdoor temp. (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	7.16	1.01	7.91	1.07	8.66	1.12	9.41	1.17	11.2	0.92	12.1	0.97
18.0	7.15	1.05	7.90	1.11	8.65	1.16	9.39	1.22	11.2	0.96	12.1	1.01
20.0	7.15	1.09	7.89	1.15	8.64	1.21	9.38	1.27	11.2	1.00	12.1	1.05
21.0	7.14	1.12	7.89	1.17	8.63	1.23	9.38	1.29	11.2	1.02	12.1	1.07
22.0	7.14	1.14	7.88	1.20	8.63	1.26	9.37	1.32	11.2	1.04	12.0	1.09
24.0	7.13	1.18	7.87	1.24	8.62	1.30	9.36	1.36	11.2	1.08	12.0	1.13

3D048605

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark (○) show the max. at standard conditions.
On the figure the mark (●) show rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- On the tables show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
SHC* = 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB)
Add SHC* to SHC.
- Capacities are based on following conditions:
Outdoor air : 85 % RH, however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR	30	28	27	24	23	29
(BF)	(0.11)	(0.16)	(0.20)	(0.14)	(0.10)	(0.07)

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
AFR	15x2	12x2	14x2	13x2
(BF)	(0.16x2)	(0.16x2)	(0.15x2)	(0.1x2)

- Rated power input of each model is tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.86	3.15	2.78	3.12
Heating	2.56	3.14	3.00	3.60	3.39	3.28

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR	14x3	10x3	11.5x3	13x3
(BF)	(0.16x3)	(0.25x3)	(0.15x3)	(0.2x3)

Triple

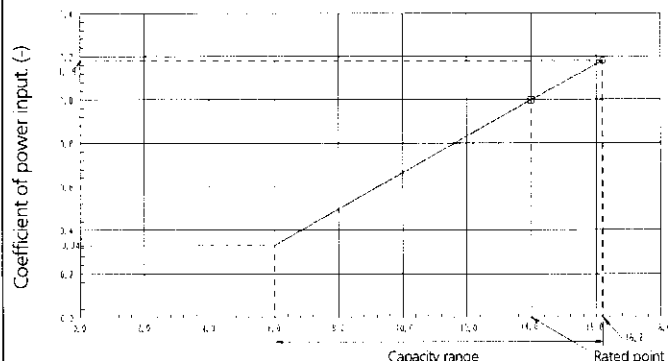
Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

5 Capacity tables

5 - 3 Heating capacity tables

RZQ125B8V3 (Pair + Twin / triple / double twin)

Heating



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Heating capacity

Heating capacity

230V [50Hz]

Indoor EDB (°C)	Outdoor temp. (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	8.83	1.05	9.76	1.11	10.7	1.16	11.6	1.22	14.0	0.92	15.1	0.97
18.0	8.82	1.10	9.74	1.15	10.7	1.21	11.6	1.27	14.0	0.96	15.1	1.01
20.0	8.81	1.14	9.73	1.20	10.7	1.26	11.6	1.32	14.0	1.00	15.1	1.05
21.0	8.81	1.16	9.73	1.22	10.6	1.28	11.6	1.34	14.0	1.02	15.1	1.07
22.0	8.80	1.18	9.72	1.24	10.6	1.31	11.6	1.37	14.0	1.04	15.1	1.09
24.0	8.79	1.22	9.71	1.29	10.6	1.35	11.5	1.42	14.0	1.08	15.0	1.13

3D048604A

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark ○ show the max. at standard conditions.
On the figure the mark □ show rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- On the tables □ show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
SHC* = 0.02 x AFR (m³/min) x (1-BF) x (DB*-EDB)
Add SHC* to SHC.
- Capacities are based on following conditions:
Outdoor air : 85 % RH, however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR	30	31	35	30	32	45
BF	(0.13)	(0.07)	(0.14)	(0.13)	(0.07)	(0.25)

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR	18x2	15x2	19x2	17x2
BF	(0.1x2)	(0.11x2)	(0.11x2)	(0.2x2)

- Rated power input of each model is tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.98	4.45	4.05	4.15
Heating	3.59	4.36	3.99	4.50	4.36	3.69

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input	(-)

Caution:
TC and SHC are shown by kW

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR	15x3	12x3	14x3	13x3
BF	(0.16x3)	(0.16x3)	(0.15x3)	(0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR	14x4	10x4	11.5x4	13x4
BF	(0.16x4)	(0.25x4)	(0.15x4)	(0.2x4)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Double twin

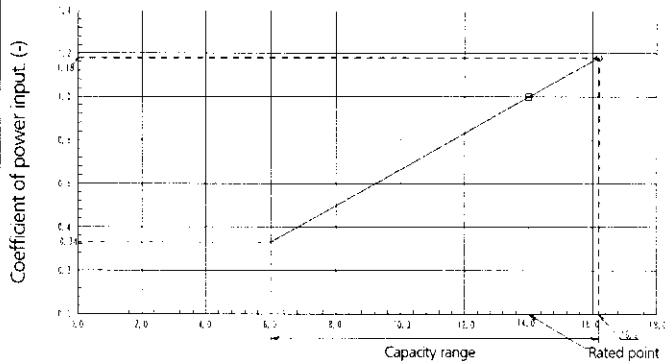
Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

5 Capacity tables

5 - 3 Heating capacity tables

RZQ125BW1 (Pair + Twin / triple / double twin)

Heating



Heating capacity

Heating capacity

230V [50Hz]

Indoor EDB (°C)	Outdoor temp. (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	8.83	1.05	9.76	1.11	10.7	1.16	11.6	1.22	14.0	0.92	15.1	0.97
18.0	8.82	1.10	9.74	1.15	10.7	1.21	11.6	1.27	14.0	0.96	15.1	1.01
20.0	8.81	1.14	9.73	1.20	10.7	1.26	11.6	1.32	14.0	1.00	15.1	1.05
21.0	8.81	1.16	9.73	1.22	10.6	1.28	11.6	1.34	14.0	1.02	15.1	1.07
22.0	8.80	1.18	9.72	1.24	10.6	1.31	11.6	1.37	14.0	1.04	15.1	1.09
24.0	8.79	1.22	9.71	1.29	10.6	1.35	11.5	1.42	14.0	1.08	15.0	1.13

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NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark ○ show the max. at standard conditions.
On the figure the mark □ show rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- On the tables show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB.
SHC* = SHC correction for other dry bulb
SHC* = $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$
Add SHC* to SHC.
- Capacities are based on following conditions:
Outdoor air : 85 % RH, however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR (BF)	30 (0.13)	31 (0.07)	35 (0.14)	30 (0.13)	32 (0.07)	45 (0.25)

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR (BF)	18x2 (0.1x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)

- Rated power input of each model is tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.98	4.45	4.05	4.15
Heating	3.59	4.36	3.99	4.50	4.36	3.69

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input	(-)

Caution:
TC and SHC are shown by kW

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Double twin

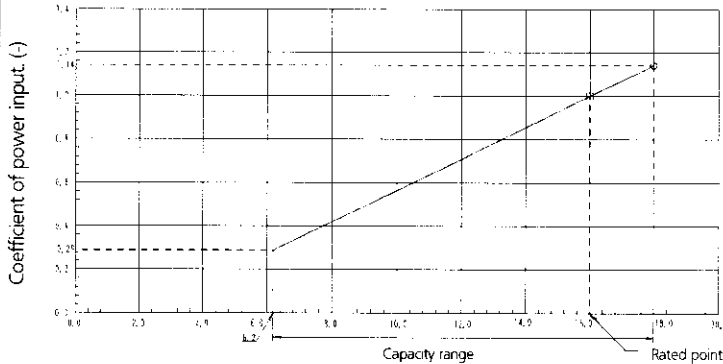
Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

5 Capacity tables

5 - 3 Heating capacity tables

RZQ140BW1 (Pair + Twin / triple / double twin)

Heating



Heating capacity

Heating capacity

400V [50Hz]

Indoor EDB (°C)	Outdoor temp. (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	9.82	1.05	10.8	1.11	11.9	1.16	12.9	1.22	16.0	0.92	17.3	0.97
18.0	9.80	1.10	10.8	1.15	11.8	1.21	12.9	1.27	16.0	0.96	17.2	1.01
20.0	9.79	1.14	10.8	1.20	11.8	1.26	12.9	1.32	16.0	1.00	17.2	1.05
21.0	9.79	1.16	10.8	1.22	11.8	1.28	12.8	1.34	16.0	1.02	17.2	1.07
22.0	9.78	1.18	10.8	1.24	11.8	1.31	12.8	1.37	16.0	1.04	17.2	1.09
24.0	9.77	1.22	10.8	1.29	11.8	1.35	12.8	1.42	16.0	1.08	17.2	1.13

3D048607

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark ○ show the max. at standard conditions.
On the figure the mark ○ show rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
3. On the tables show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
SHC* = 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB)
Add SHC* to SHC.
5. Capacities are based on following conditions:
Outdoor air : 85 % RH, however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error according to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ140D
AFR	30
(BF)	(0.07)

Twin

Model	FCQ71Bx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
AFR	18x2	19x2	17x2	19x2	19x2
(BF)	(0.1x2)	(0.11x2)	(0.1x2)	(0.07x2)	(0.08x2)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ140D
Cooling	4.65
Heating	4.52

Twin

Model	FCQ71Bx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
Cooling	4.81	4.95	4.99	4.99	4.92
Heating	5.52	5.06	5.69	5.05	5.22

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR	15x3	12x3	14x3	13x3
(BF)	(0.16x3)	(0.16x3)	(0.15x3)	(0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR	14x4	10x4	11.5x4	13x4
(BF)	(0.16x4)	(0.25x4)	(0.15x4)	(0.2x4)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.81	4.86	4.95	4.99
Heating	5.52	5.11	5.06	5.69

Double twin

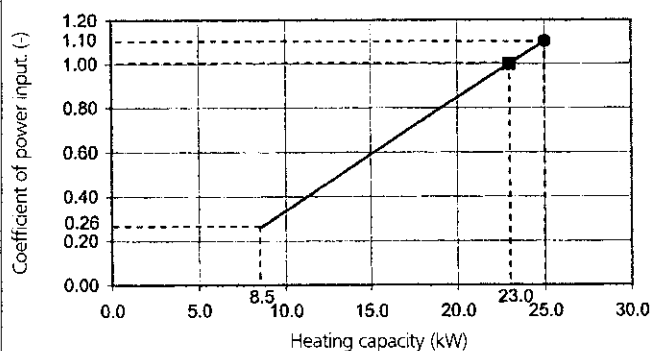
Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.81	4.86	4.95	4.99
Heating	5.52	5.11	5.06	5.69

5 Capacity tables

5 - 3 Heating capacity tables

RZQ200BW (Pair / Twin / Triple / Double twin)

Heating



Heating capacity

400V [50Hz]

Indoor °CDB	Outdoor temperature (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16	14.5	1.17	17.3	1.22	16.9	1.21	18.1	1.24	23.3	0.97	25.4	1.01
18	14.4	1.19	17.2	1.25	16.8	1.23	18.0	1.26	23.2	0.98	25.3	1.02
20	14.3	1.21	17.1	1.27	16.7	1.25	17.9	1.28	23.0	1.00	25.1	1.04
22	14.2	1.23	17.0	1.29	16.6	1.28	17.8	1.31	22.8	1.02	24.9	1.06
24	14.1	1.25	16.8	1.31	16.4	1.30	17.6	1.33	22.7	1.03	24.7	1.08

3TW26561-2A

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ● show the max. total capacity at standard conditions.
On the figure the mark with ■ show rated capacity and rated coefficient of power input.
However, only rated capacity & CPI are guaranteed (maximal values NOT).
- On the tables show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB.
SHC* = SHC correction for other dry bulb
SHC* = $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$
Add SHC* to SHC.
- Capacities are based on following conditions:
Outdoor air : 85 % RH, however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- Rated values are guaranteed. Other values are accurate within an error of 5%.
- Heating capacity includes capacity drop due to defrost operation.
- Air flow rate and BF are tabulated below.

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input	(-)

Caution:
TC and SHC are shown by kW

Pair

Model	FDQ200
AFR	69
BF	0.31

Twin

Model	FCQ100x2	FBQ100x2	FHQ100x2	FUQ100x2	FAQ100x2
AFR	28x2	27x2	24x2	29x2	23x2
BF	(0.16x2)	(0.2x2)	(0.14x2)	(0.07x2)	(0.1x2)

- Rated power input of each model is tabulated below.

Pair

Model	FDQ200
Cooling	6.43
Heating	7.54

Twin

Model	FCQ100x2	FBQ100x2	FHQ100x2	FUQ100x2	FAQ100x2
Cooling	5.87	6.36	7.00	6.93	6.18
Heating	7.16	6.85	8.21	7.48	7.74

Triple

Model	FCQ60x3	FCQ71x3	FFQ60x3	FBQ60x3	FBQ71x3	FFQ60x3	FHQ71x3	FUQ71x3	FAQ71x3
AFR	18x3	18x3	15x3	19x3	19x3	17x3	17x3	19x3	19x3
BF	(0.1x3)	(0.1x3)	(0.11x3)	(0.11x3)	(0.11x3)	(0.2x3)	(0.1x3)	(0.07x3)	(0.08x3)

Double twin

Model	FCQ50x4	FFQ50x4	FBQ50x4	FHQ50x4
AFR	15x4	12x4	14x4	13x4
BF	(0.16x4)	(0.16x4)	(0.15x4)	(0.1x4)

Triple

Model	FCQ60x3	FCQ71x3	FFQ60x3	FBQ60x3	FBQ71x3	FFQ60x3	FHQ71x3	FUQ71x3	FAQ71x3
Cooling	6.18	6.18	6.20	6.69	6.69	7.37	7.37	7.30	6.50
Heating	7.54	7.54	7.32	7.21	7.21	8.65	8.65	7.88	8.14

Double twin

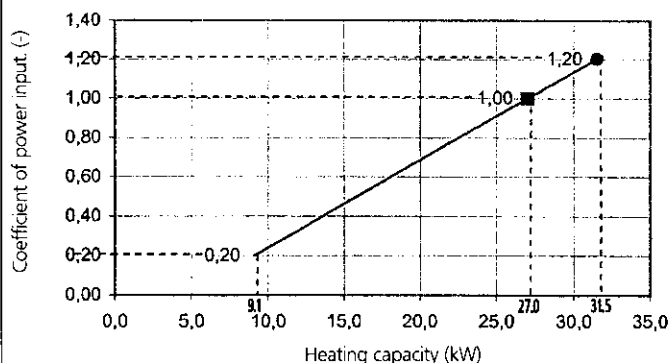
Model	FCQ50x4	FFQ50x4	FBQ50x4	FHQ50x4
Cooling	6.18	6.20	6.69	7.37
Heating	7.54	7.32	7.21	8.65

5 Capacity tables

5 - 3 Heating capacity tables

RZQ250BW1 (Pair / Twin / Double twin)

Heating



Heating capacity

400V [50Hz]

Indoor °CDB	Outdoor temperature (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16	16.5	1.04	19.4	1.09	18.7	1.09	19.9	1.12	27.5	0.92	29.9	0.98
18	16.4	1.08	19.2	1.14	18.5	1.13	19.7	1.17	27.2	0.96	29.6	1.02
20	16.2	1.12	19.0	1.18	18.4	1.18	19.5	1.22	27.0	1.00	29.3	1.06
22	16.1	1.16	18.8	1.23	18.2	1.22	19.3	1.26	26.8	1.04	29.1	1.10
24	15.9	1.20	18.7	1.27	18.0	1.26	19.2	1.31	26.5	1.08	28.8	1.14

3TW26571-2A

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ● show the max. total capacity at standard conditions.
On the figure the mark with ■ show rated capacity and rated coefficient of power input.
However, only rated capacity & CPI are guaranteed (maximal values NOT).
- On the tables show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB.
SHC* = SHC correction for other dry bulb
SHC* = $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$
Add SHC* to SHC.
- Capacities are based on following conditions:
Outdoor air : 85 % RH, however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- Rated values are guaranteed. Other values are accurate within an error of 5%.
- Heating capacity includes capacity drop due to defrost operation.
- Air flow rate and BF are tabulated below.

Pair

Model	FDQ250
AFR	89
BF	0.34

Twin

Model	FCQ125x2	FBQ125x2	FHQ125x2	FUQ125x2	FDQ125x2
AFR	31x2	35x2	30x2	32x2	45x2
BF	(0.07x2)	(0.14x2)	(0.13x2)	(0.07x2)	(0.25x2)

- Rated power input of each model is tabulated below.

Pair

Model	FDQ250
Cooling	8.30
Heating	8.85

Twin

Model	FCQ125x2	FBQ125x2	FHQ125x2	FUQ125x2	FDQ125x2
Cooling	8.62	8.84	9.89	9.00	9.22
Heating	9.34	8.55	9.64	9.34	7.91

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp + indoor + outdoor fan motor)	
CPI:	Coefficient of power input	(-)

Caution:
TC and SHC are shown by kW

Double twin

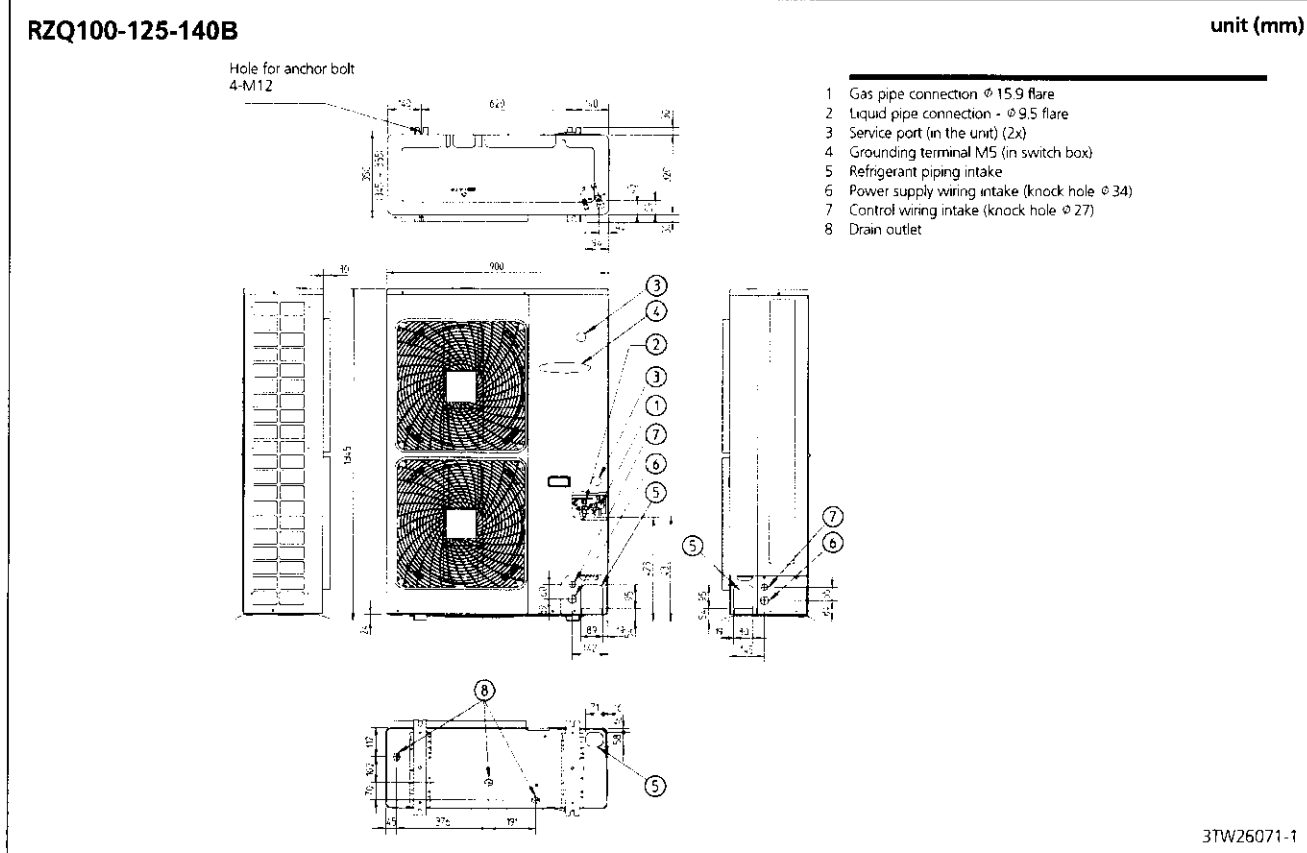
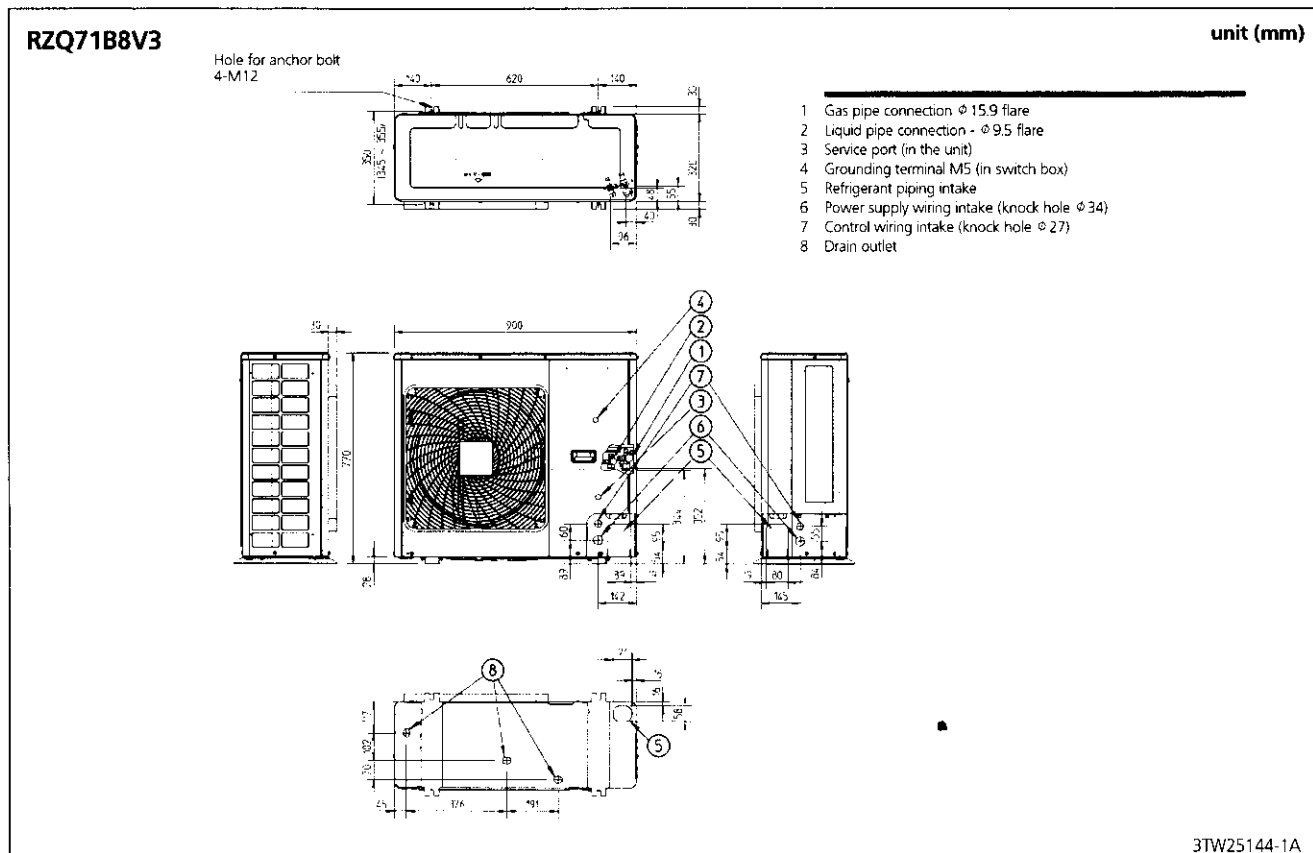
Model	FCQ60x4	FFQ60x4	FBQ60x4	FHQ60x4
AFR	18x4	15x4	19x4	17x4
BF	(0.1x4)	(0.11x4)	(0.11x4)	(0.2x4)

Double twin

Model	FCQ60x4	FFQ60x4	FBQ60x4	FHQ60x4
Cooling	9.08	9.18	9.31	10.41
Heating	9.83	9.13	9.00	10.15

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing



6 - 1 Dimensional drawing

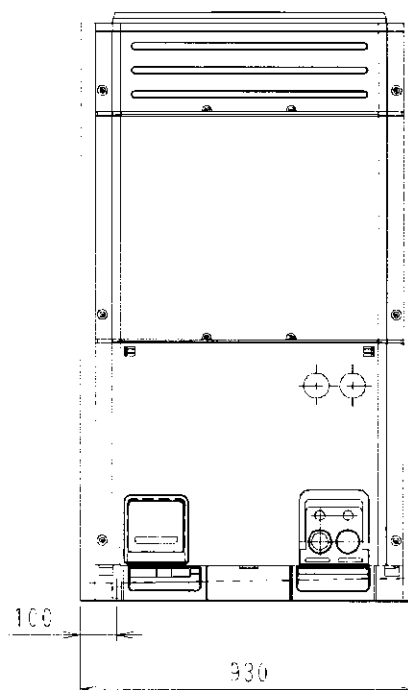
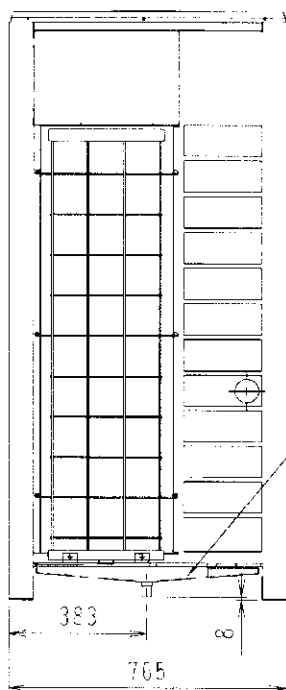
3TW26564-2

3TW26574-2

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

RZQ200-250B

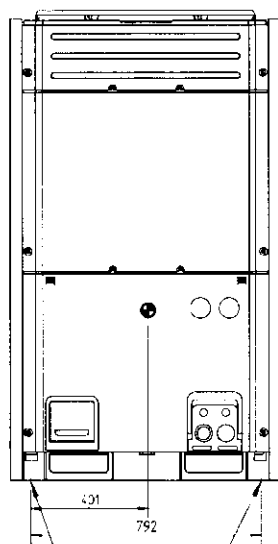


3D041017C

6 Dimensional drawing & centre of gravity

6 - 2 Centre of gravity

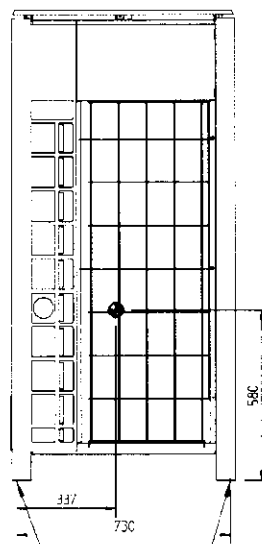
RZQ200-250B



Center of foundation bolt hole



Center of foundation bolt hole (oblong hole)



Center of foundation bolt hole

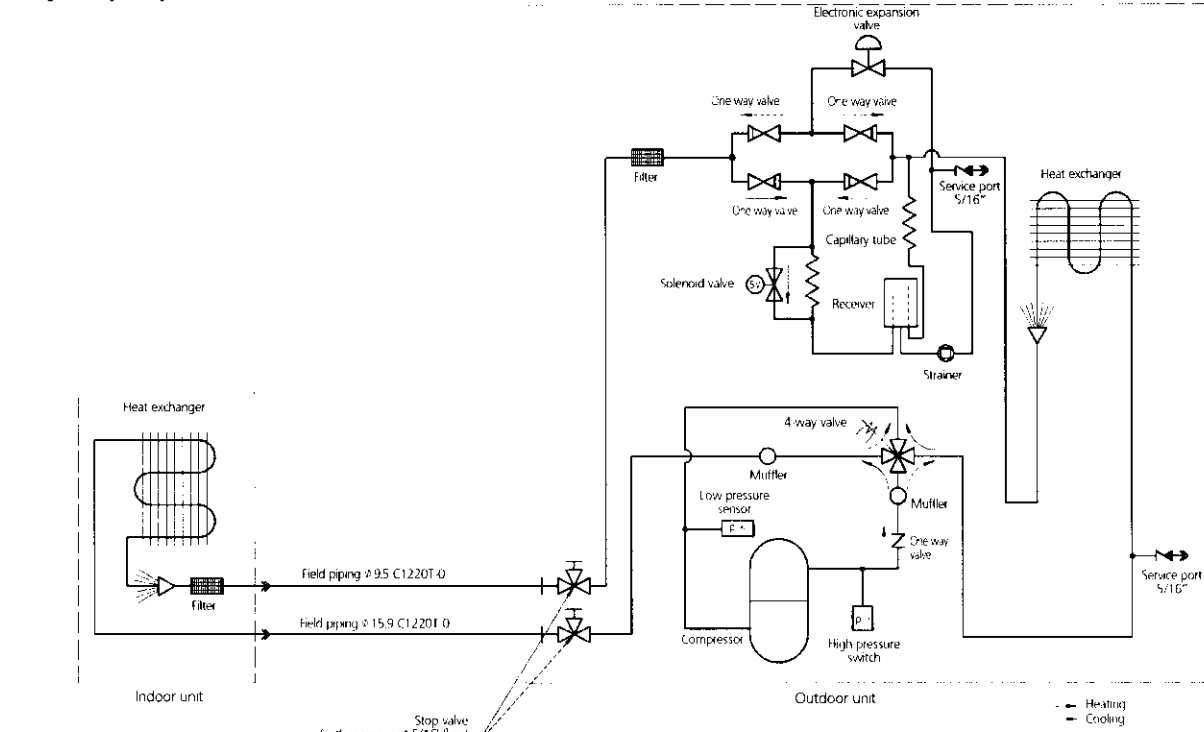


Center of foundation bolt hole (oblong hole)

4TW26569-1

7 Piping diagram

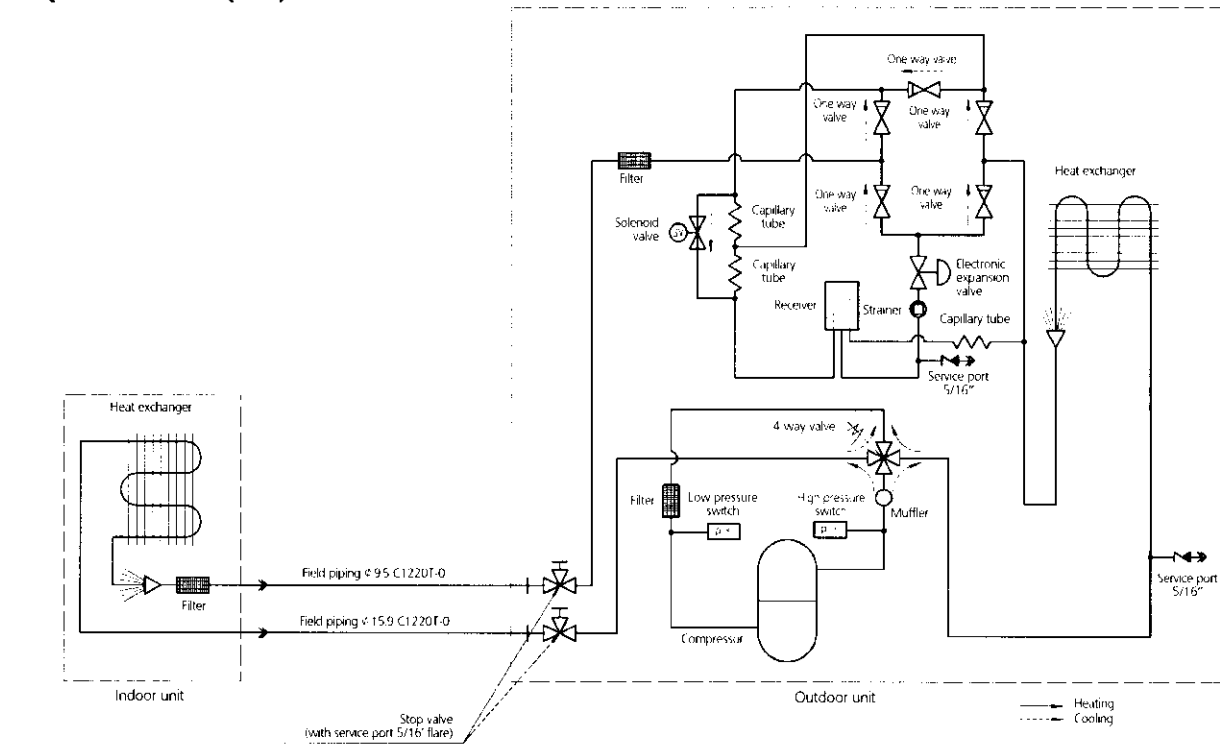
RZQ71B (Pair)



Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW26735-1

RZQ100-125-140B (Pair)



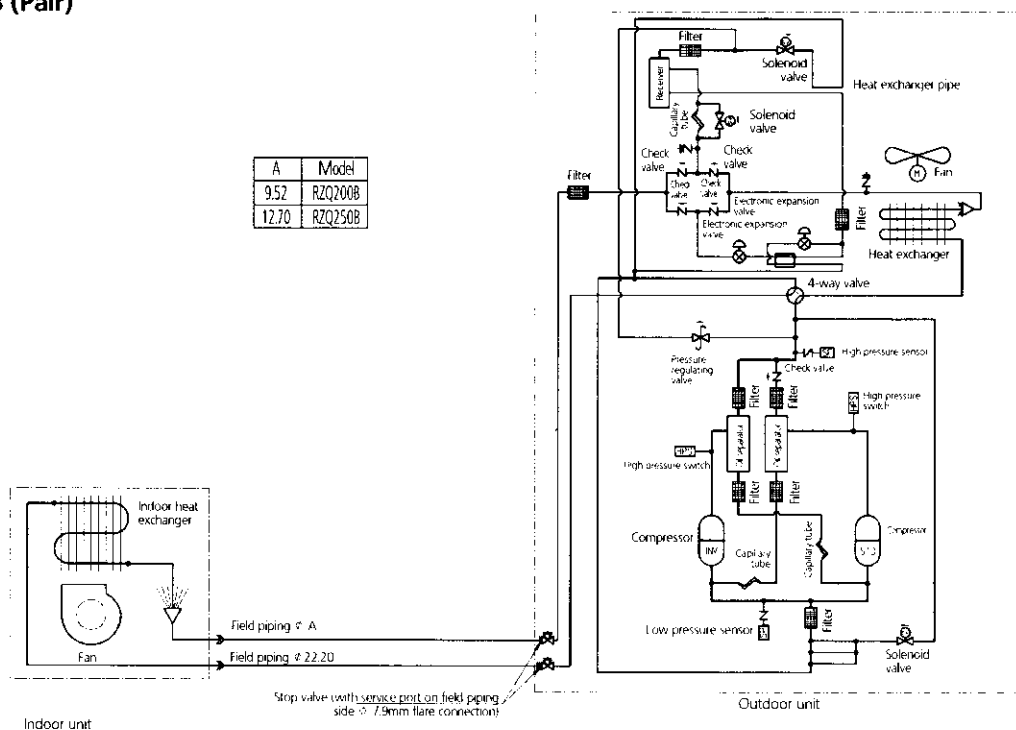
Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW26745-1

7 Piping diagram

RZQ200-250B (Pair)

A	Model
9.52	RZQ200B
12.70	RZQ250B

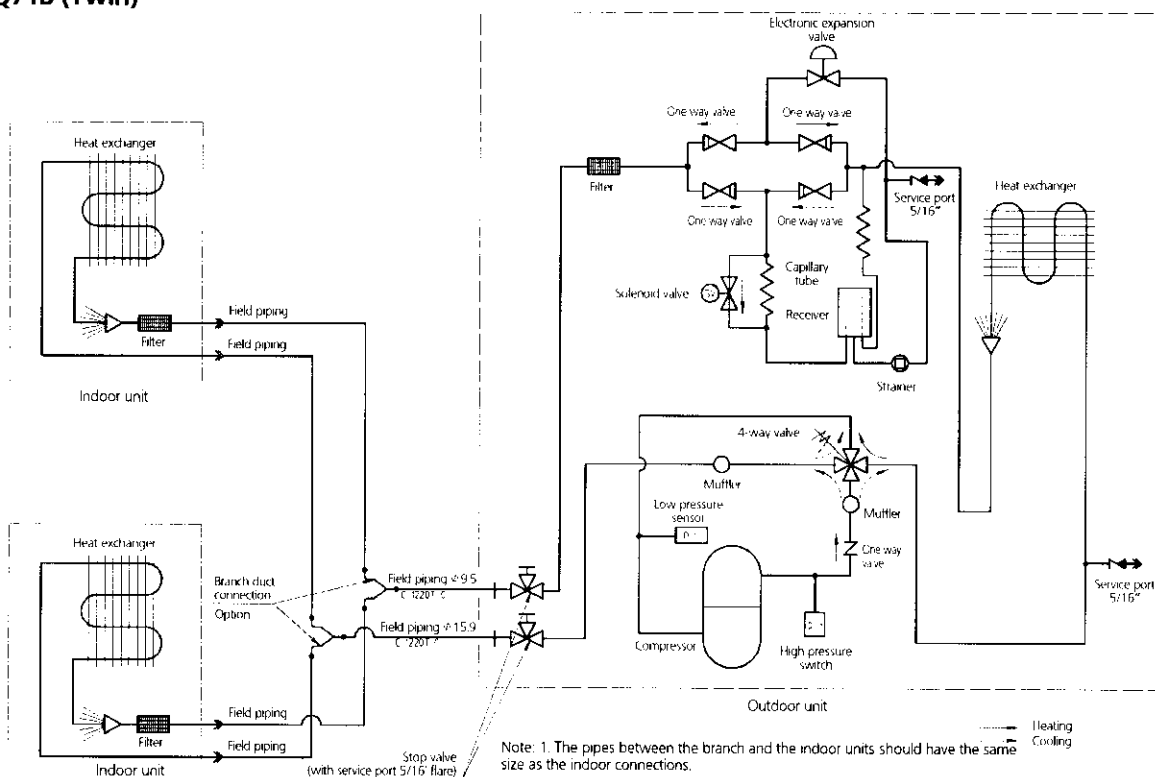


Note: The pipes between the branch and the indoor units should have the same size as the indoor connections.

3TW26565-1

Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

RZQ71B (Twin)



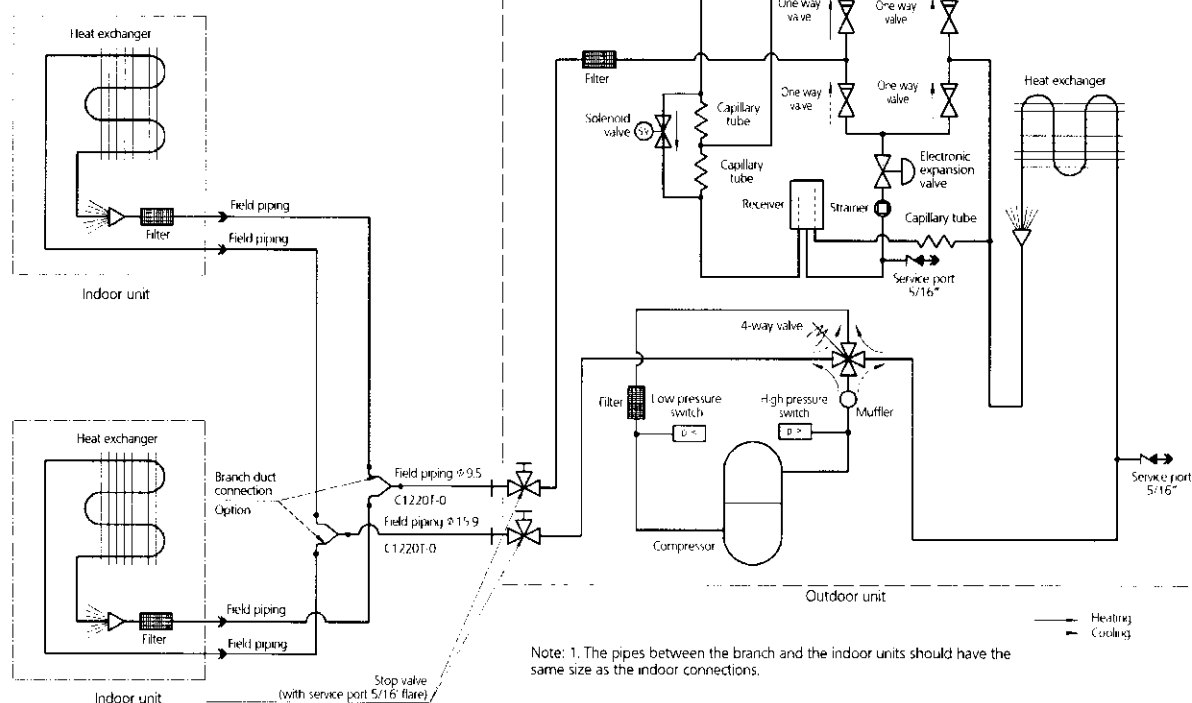
Note: 1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3TW26735-2

Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

7 Piping diagram

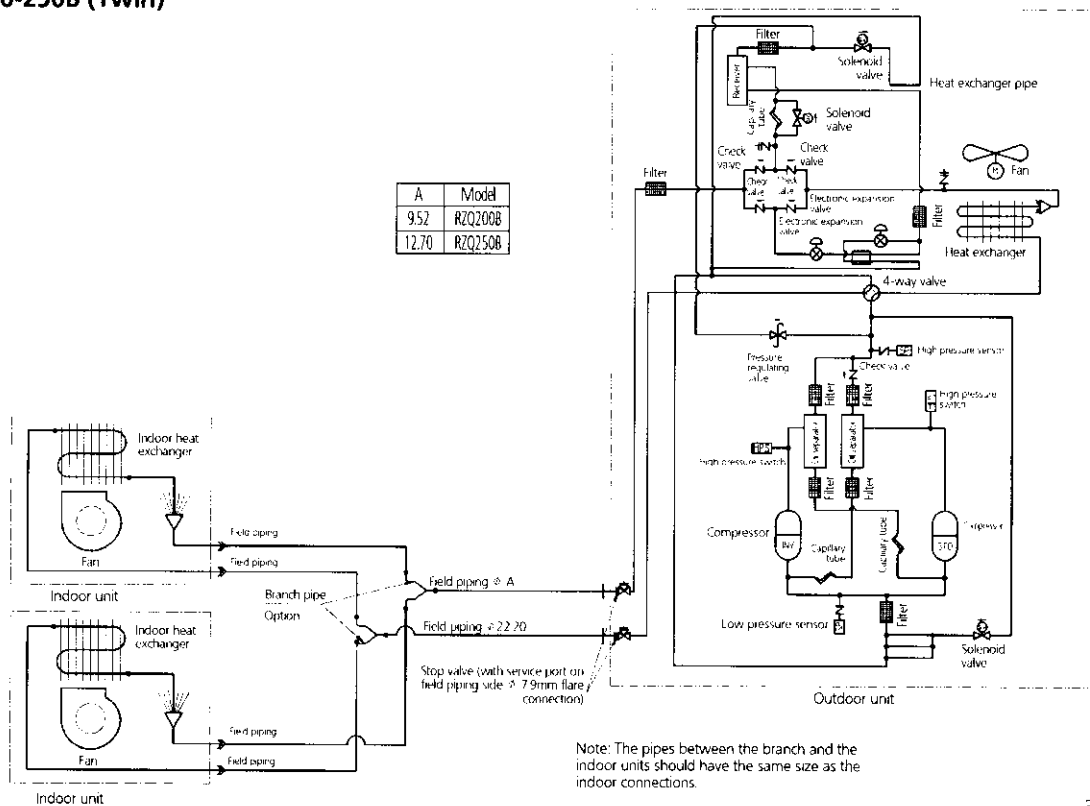
RZQ100-125-140B (Twin)



Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW26745-2

RZQ200-250B (Twin)

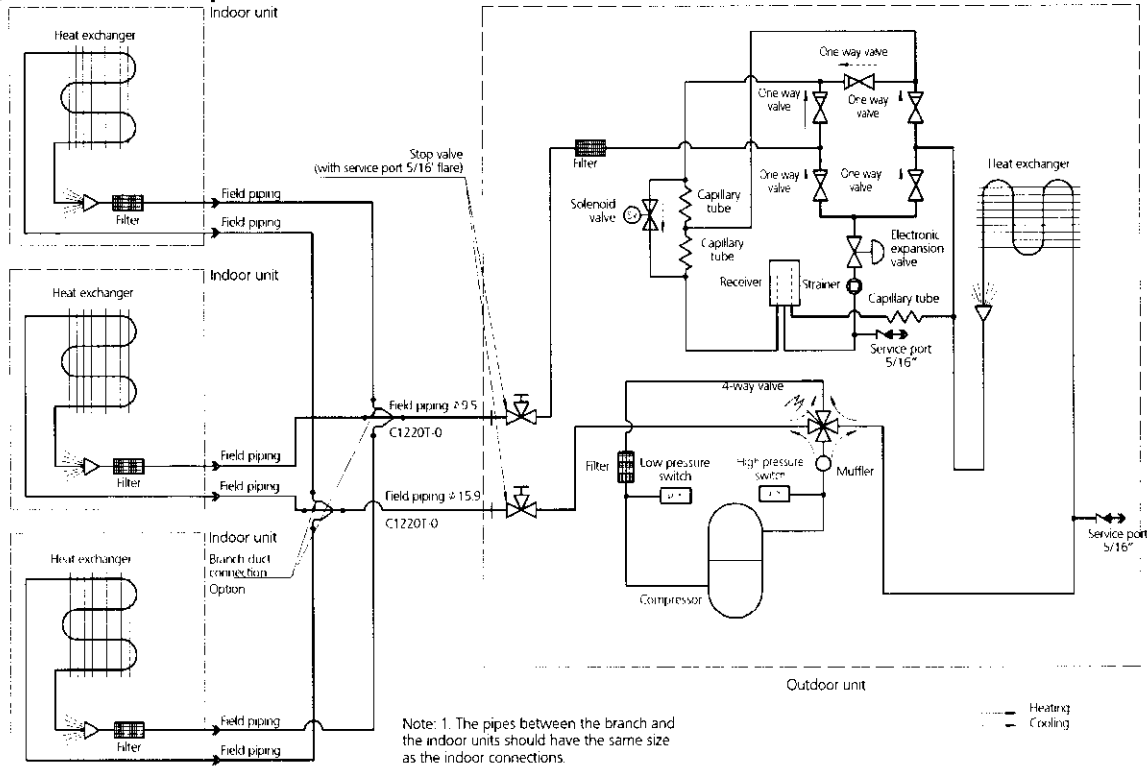


Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW26565-2

7 Piping diagram

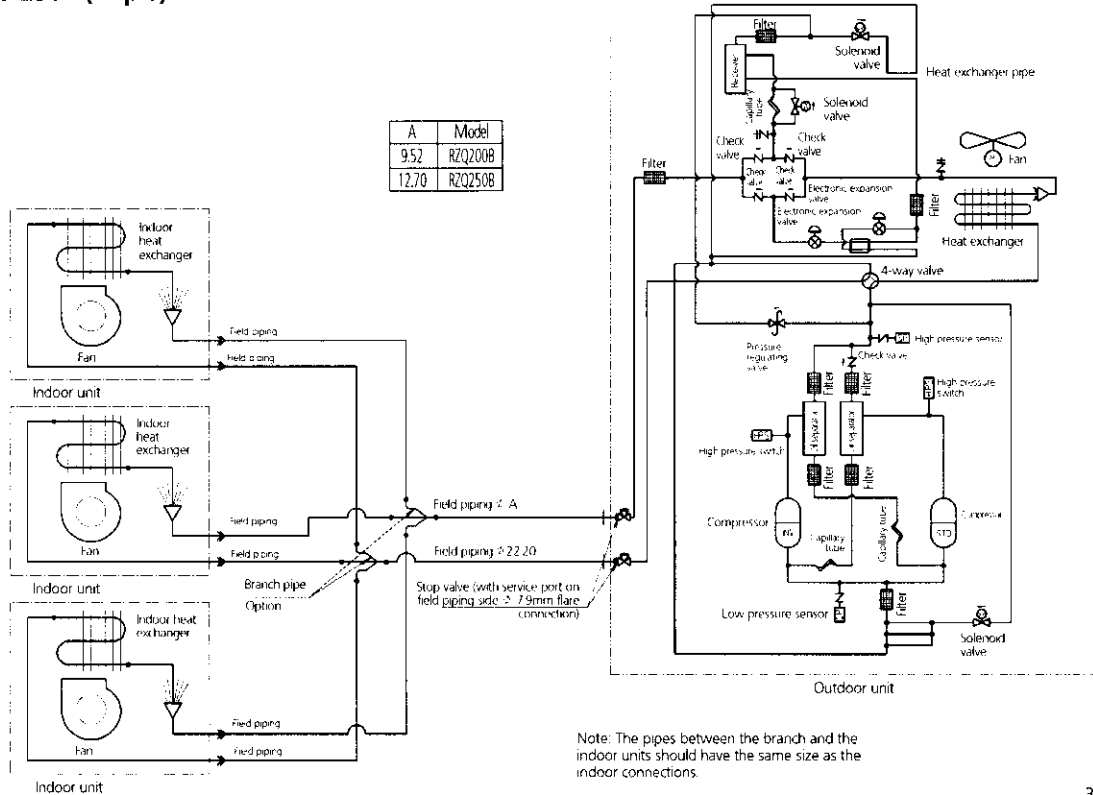
RZQ100-125-140B (Triple)



3TW26745-3

Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

RZQ200-250B (Triple)

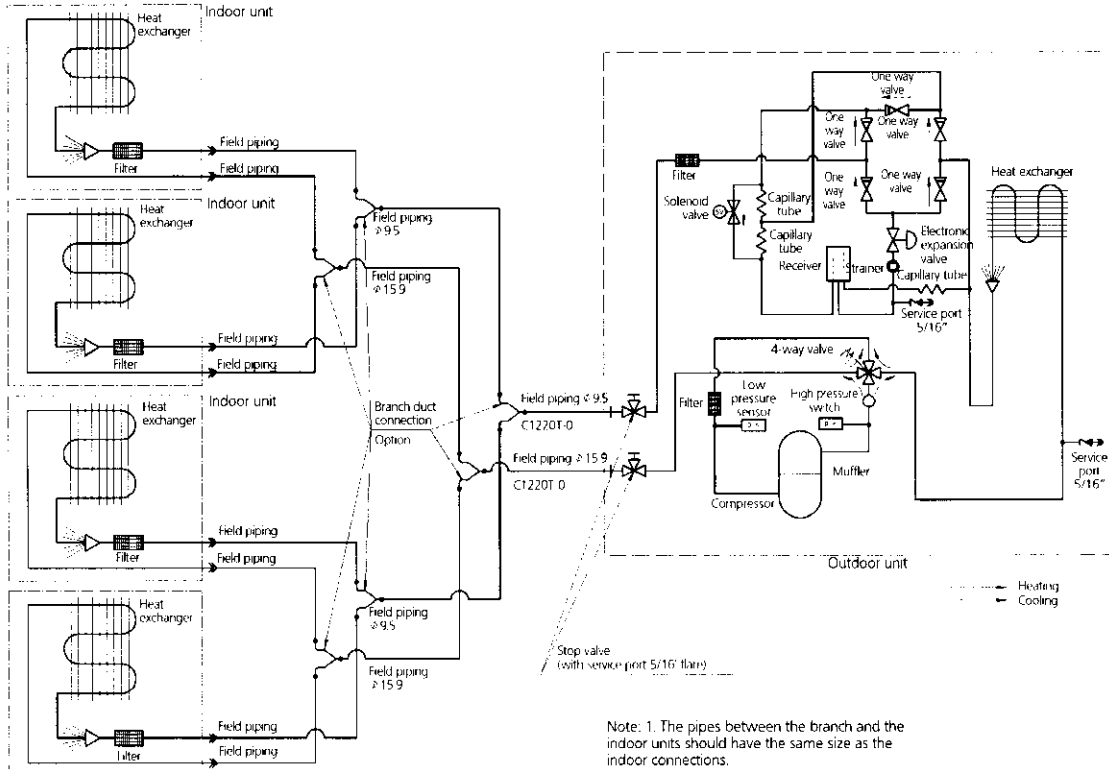


3TW26565-3

Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

7 Piping diagram

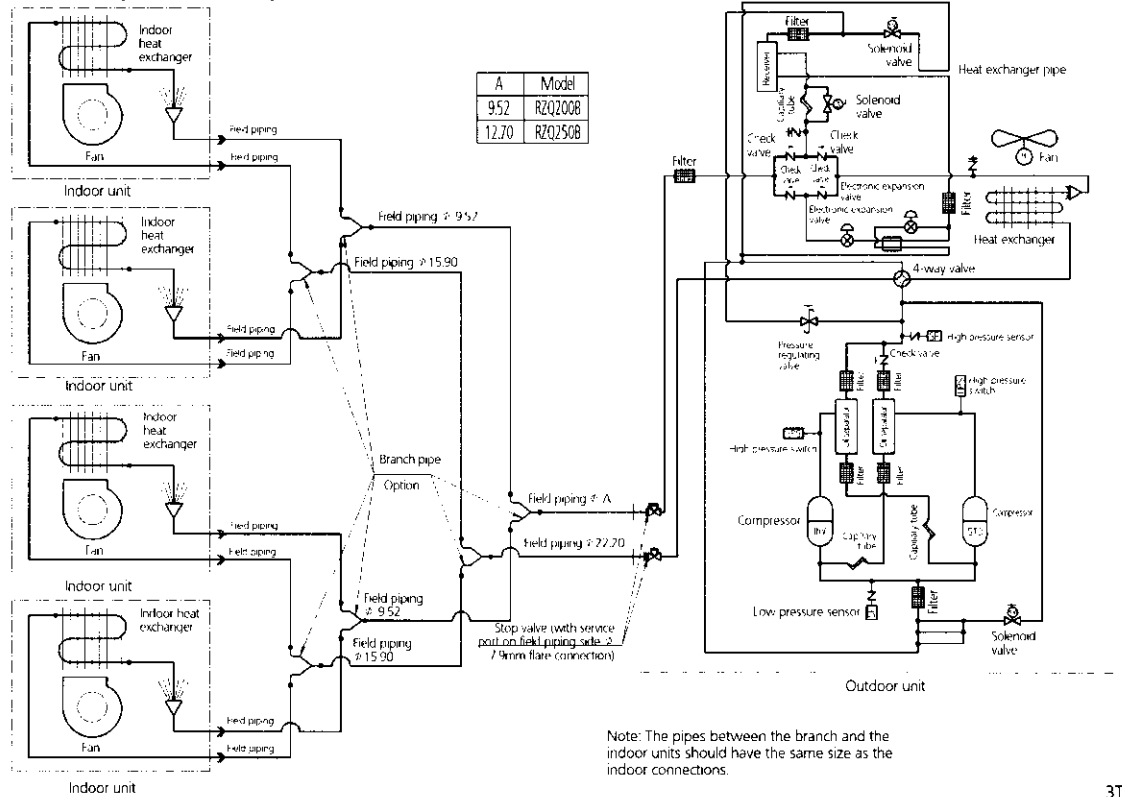
RZQ100-125-140B (Double twin)



Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW26755-4

RZQ200-250B (Double twin)



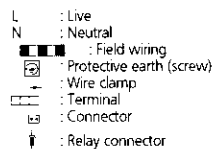
Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW26565-4A

8 Wiring diagram

8 - 1 Wiring diagram

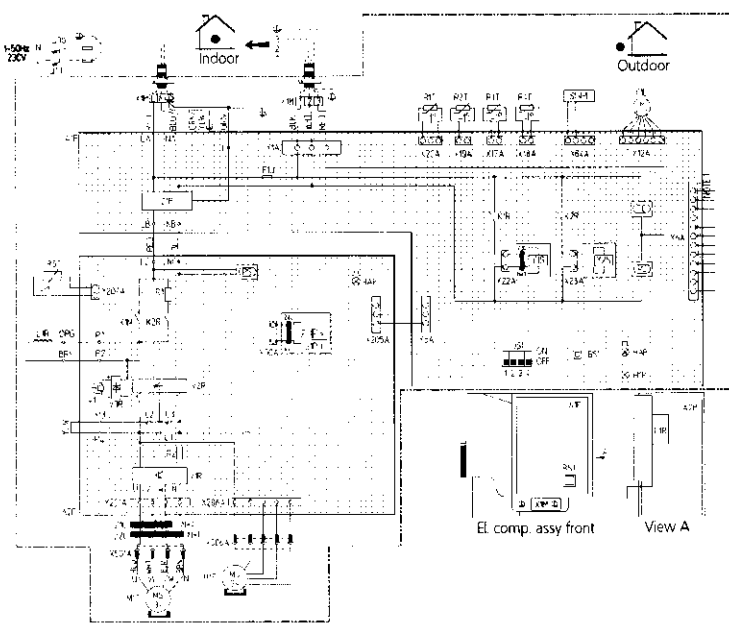
RZQ71B8V3



Colours
BLK: Black / ORG: Orange / BLU: Blue /
WHT: White / RED: Red / YLW: Yellow /
BRN: Brown / GRN: Green

NOTES:

1. Refer to the optional manual, for connection wiring to X5A.
2. Confirm the method of setting the selector switches (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.



A1P	Printed circuit board
A2P	Printed circuit board (PPS)
B51	Push button switch (forced defrost, pump down)
C1 C2 C3	Capacitor
U31	Dip switch
F1U1	Fuse 10, 3A, 250V
H4P, A1P1	Light emitting diode (service monitor green)
H4P, A2P1	Light emitting diode (service monitor green)
H1P, A1P1	Light emitting diode (service monitor red)

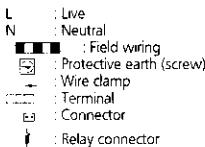
K1M/A2P1	Magnetic contactor
K1R/A1P1	Magnetic relay (V1S)
K2R/A1P1	Magnetic relay (V2S)
K3R/A2P1	Magnetic relay
L1R	Reactor
M1C	Motor compressor
M1F	Motor fan
P5	Power circuit
Q1D	Earth leakage breaker (20mA)
R1 R2	Resistor
T1T	Thermistor fan

RT	Thermistor (coil)
DT	Thermistor (discharge pipe)
WT	Thermistor (suction pipe)
PT	Thermistor (power module)
STH	Pressure switch (high)
STL	Pressure sensor (low)
RC	Signal receiver circuit
TC	Signal transmission circuit
PR	Power module

V3R V3R	Diode module
V1T	IGBT
X6A	Connector, Opto
X1M	Terminal strip
Y1E	Expansion valve
Y1S	4-way valve
Y2S	Solenoid valve
Z7C, Z7C	Noise filter
Z9C, Z9C	Noise filter with surge absorber

2TW26736-1A

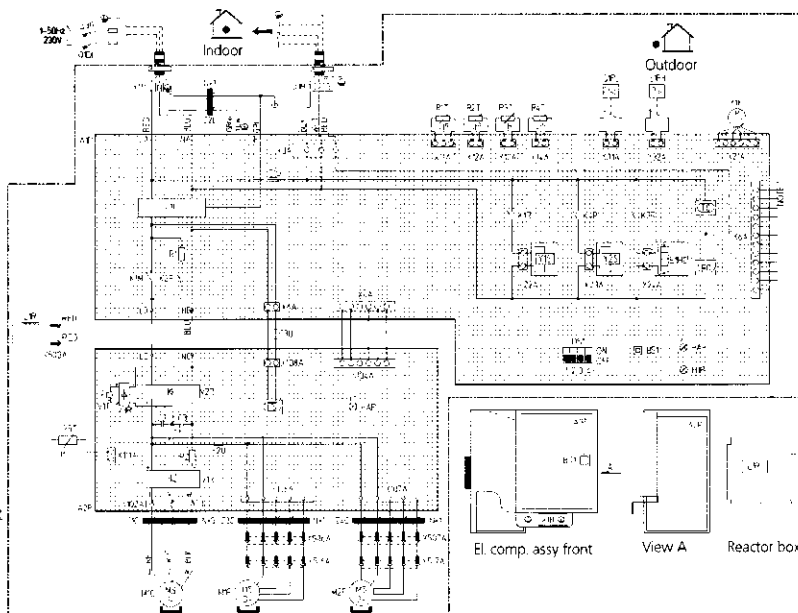
RZQ100-125B8V3



Colours
BLK: Black / ORG: Orange / BLU: Blue /
WHT: White / RED: Red / YLW: Yellow /
BRN: Brown / GRN: Green

NOTES:

1. Refer to the optional manual, for connection wiring to X5A.
2. Confirm the method of setting the selector switches (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.



A1P	Printed circuit board
A2P	Printed circuit board (HP)
B51	Push button switch (forced detect., pump down)
C1-C2-C3	Capacitor
D51	Cap switch
E1-E4	Crankcase heater
F1-F4	Fuse (T 6.3A/250V)
F2-F3	Fuse
F4-F5	Fuse (6 SA/250V)
HAP (A1P)	Light emitting diode (service monitor green)
HAP (A2P)	Light emitting diode (service monitor green)
H1P (A1P)	Light emitting diode (service monitor red)

K' M2P1	Magnetic contactor
K' R1P1	Magnetic relay (Y1S)
K2R1P1	Magnetic relay
K3R1P1	Magnetic relay (Y1C)
K4R1P1	Magnetic relay (Y2S)
L1R	Reactor
M1C	Motor compressor
M1F	Motor fan
P5	Power circuit
Q1D1	Fault leakage breaker (30mA)
R1 R2	Resistor
T1T	Thermistor can

R1	Thermistor (high)
R2	Thermistor (discharge power)
R3	Thermistor (suction pipe)
R4	Thermistor (power module)
SW	Pressure switch (high)
SWL	Pressure sensor (low)
IC	Signal transmission circuit
PM	Power module

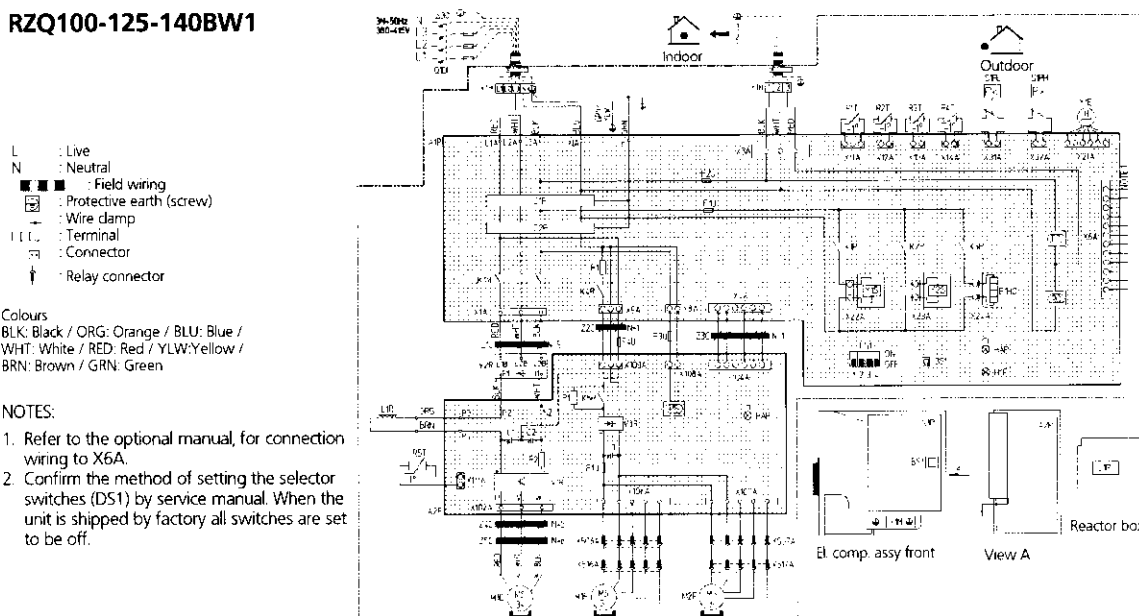
128-13H	Diode module
V11	GBT
X6A	Connector, Optron
X1M	Terminal strip
Y1E	Expansion valve
Y1S	4-way valve
Y2S	Solenoid valve
Z1C, Z2C	Noise filter
Z3C, Z4C	Noise filter
Z1S	Noise filter with surge absorber
Z2S	Noise filter with surge absorber

2TW26746-1

8 Wiring diagram

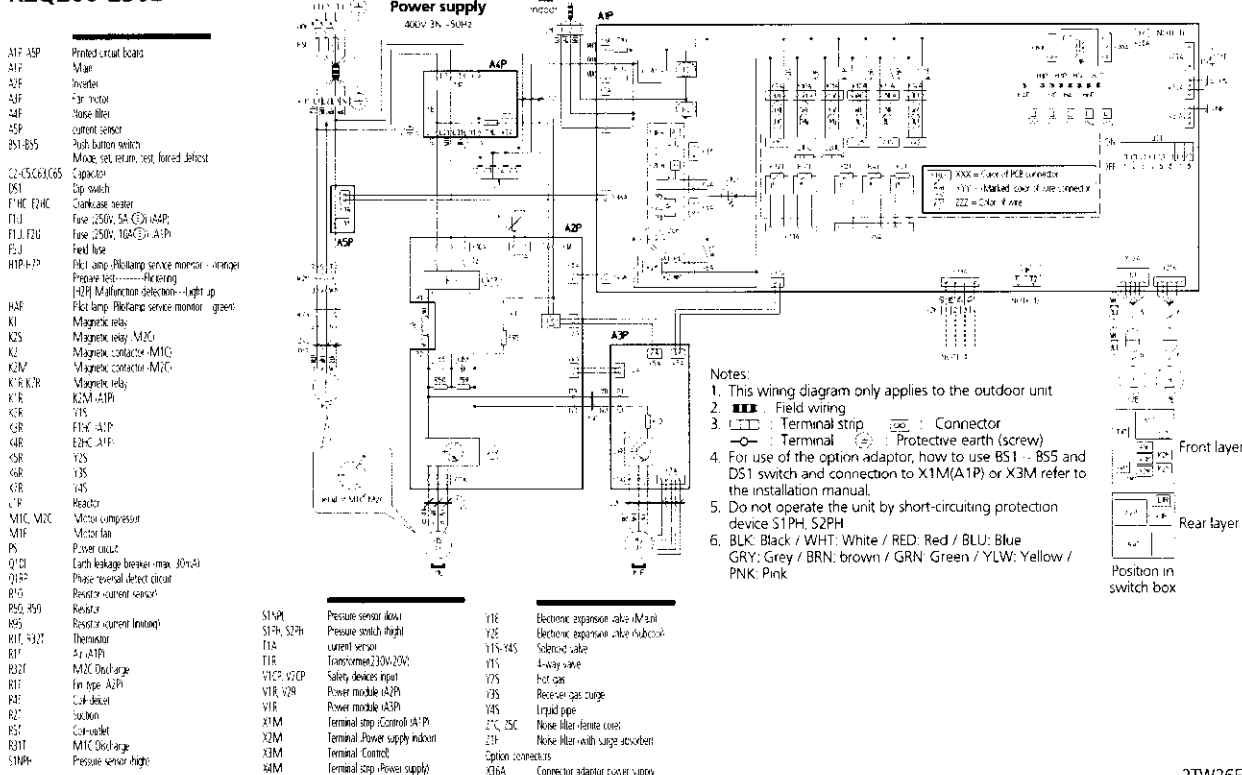
8 - 1 Wiring diagram

RZQ100-125-140BW1



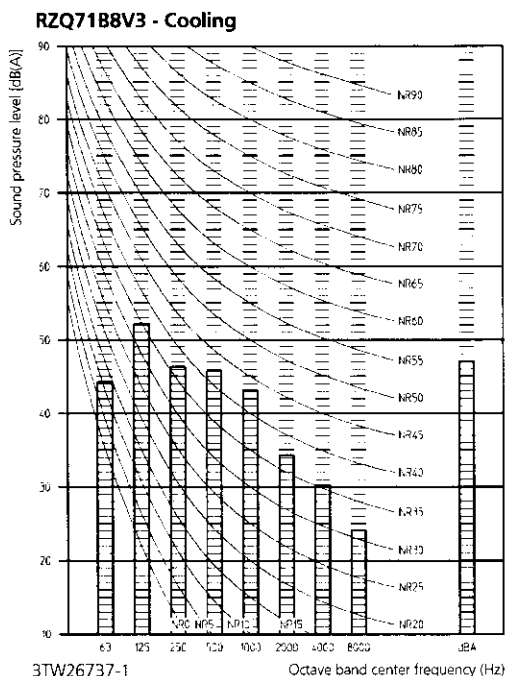
- 2TW26766-1

RZQ200-250B



9 Sound data

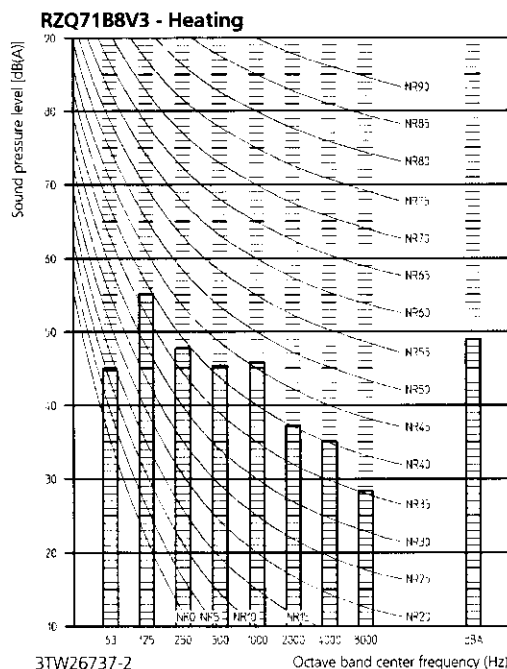
9 - 1 Sound pressure spectrum



NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa

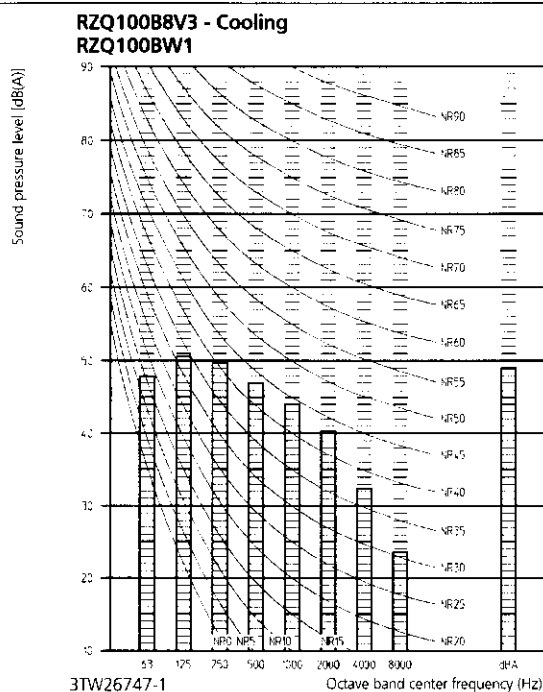
Measuring location
(discharge side)



NOTES

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- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
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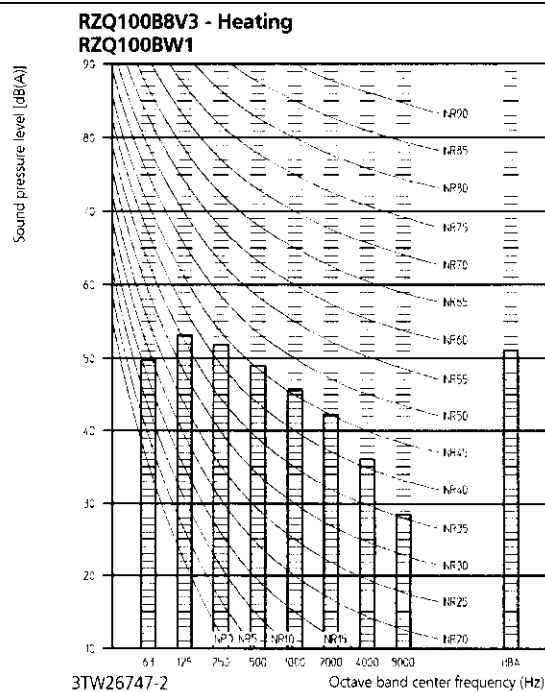
Measuring location
(discharge side)



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- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa

Measuring location
(discharge side)



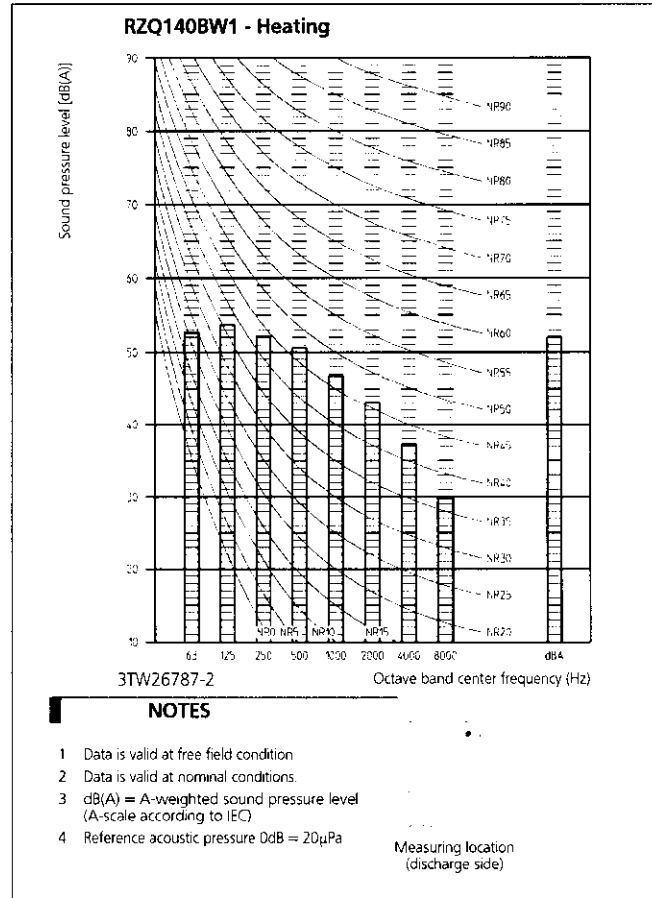
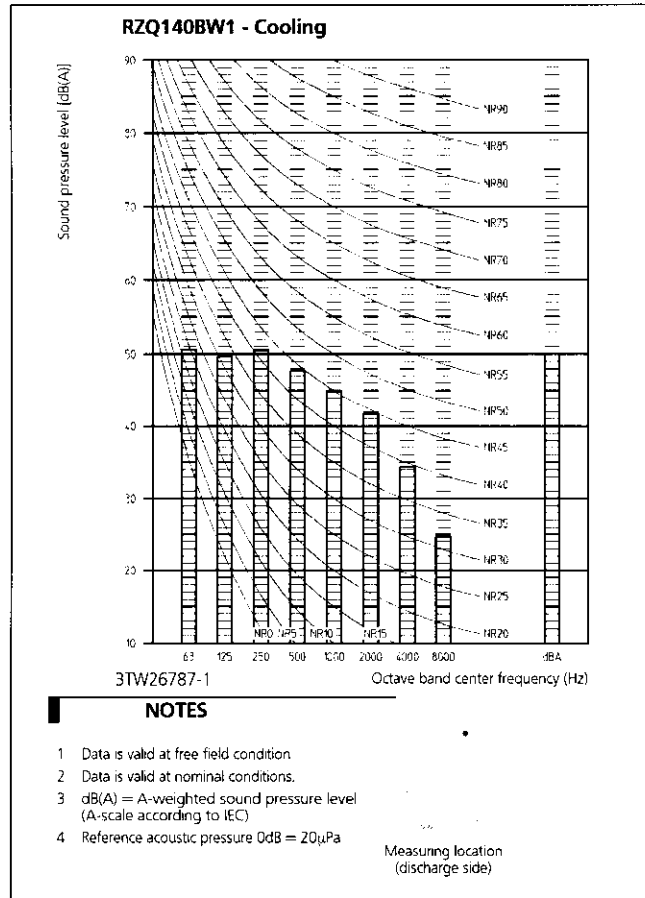
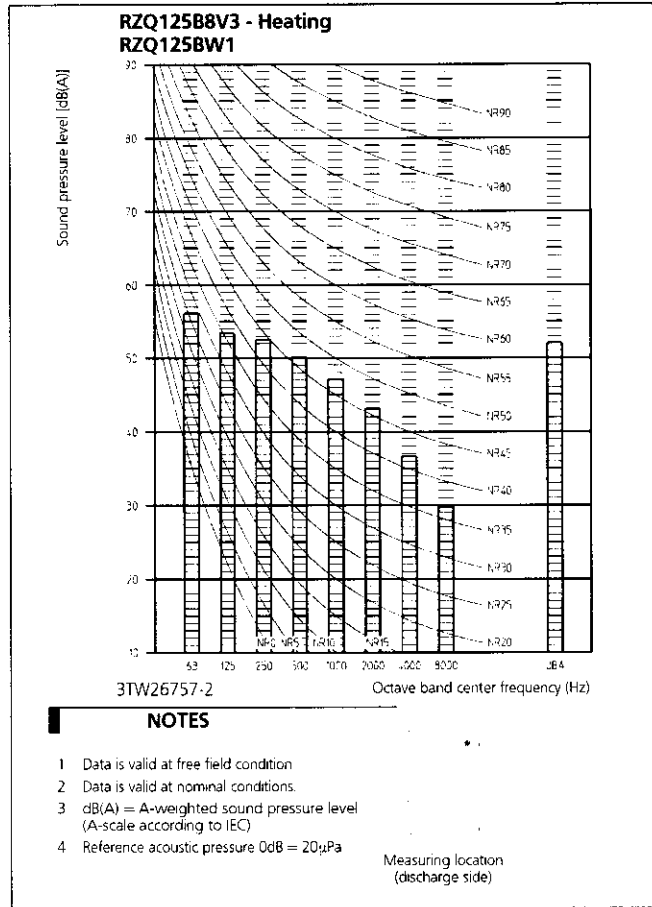
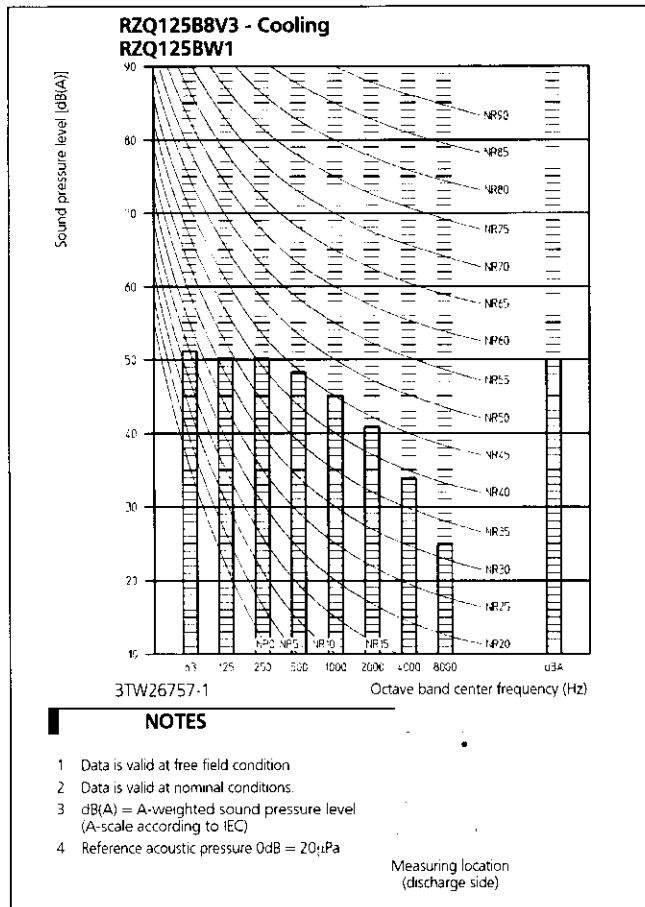
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Measuring location
(discharge side)

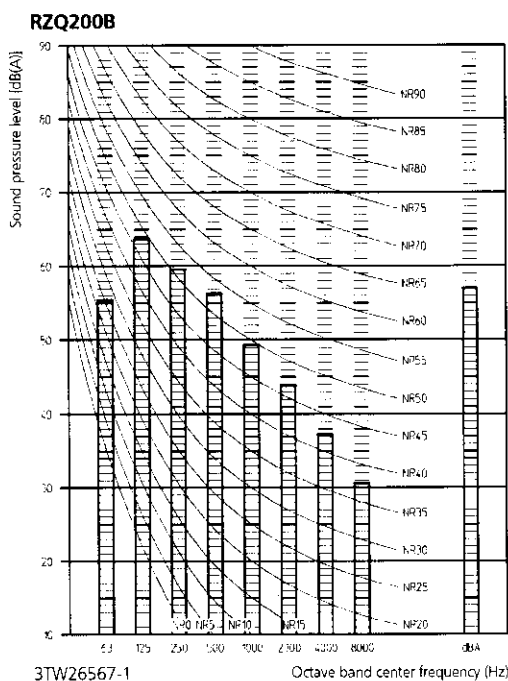
9 Sound data

9 - 1 Sound pressure spectrum



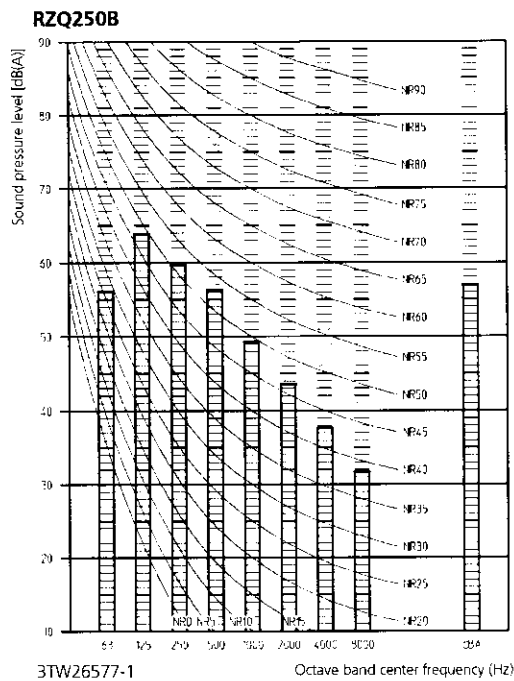
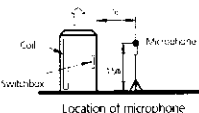
9 Sound data

9 - 1 Sound pressure spectrum



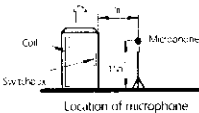
NOTES

- 1 Data is valid at free field condition (measured in a semi-anechoic room)
- 2 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 3 Reference acoustic pressure 0dB = 20μPa
- 4 If sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



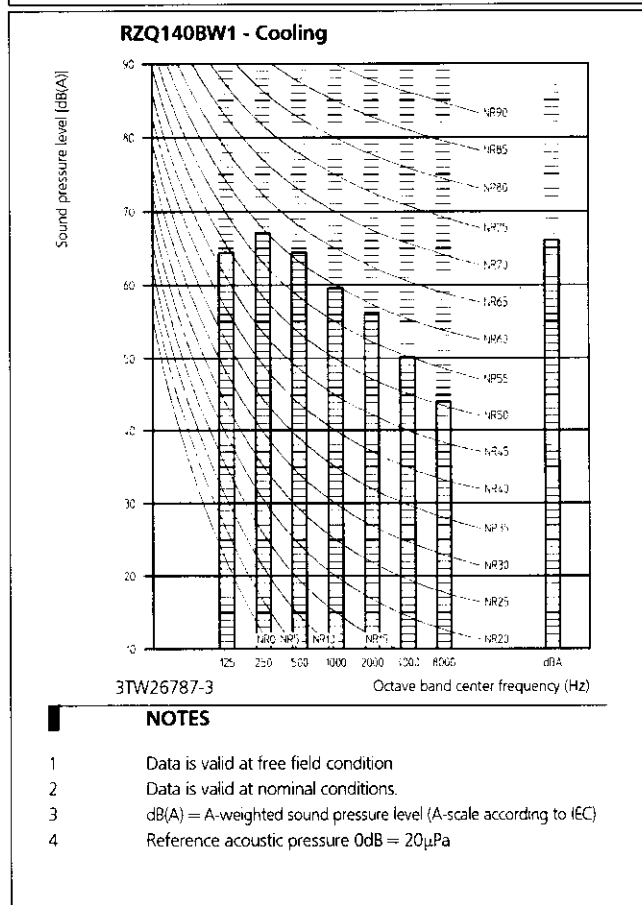
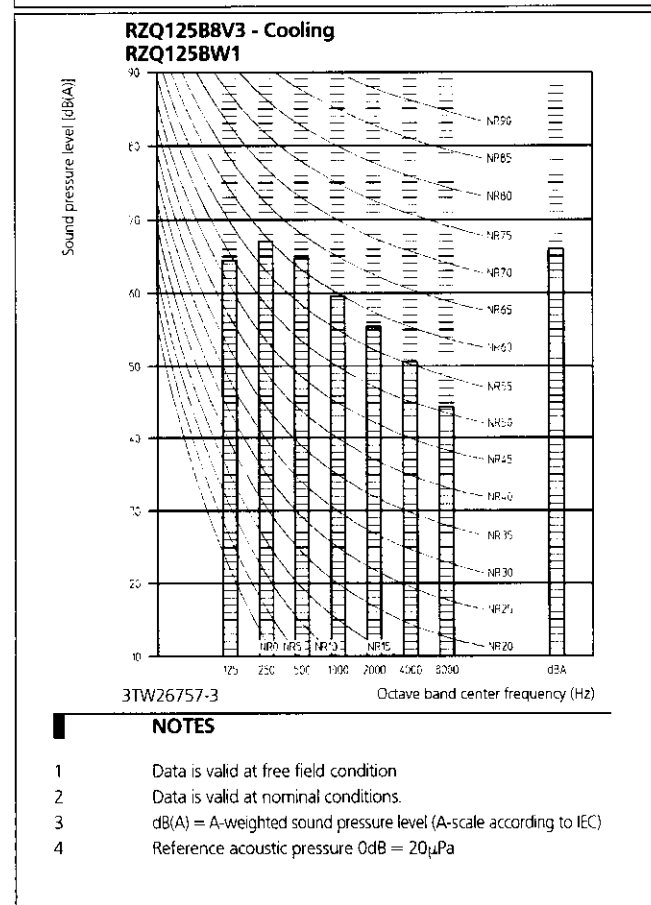
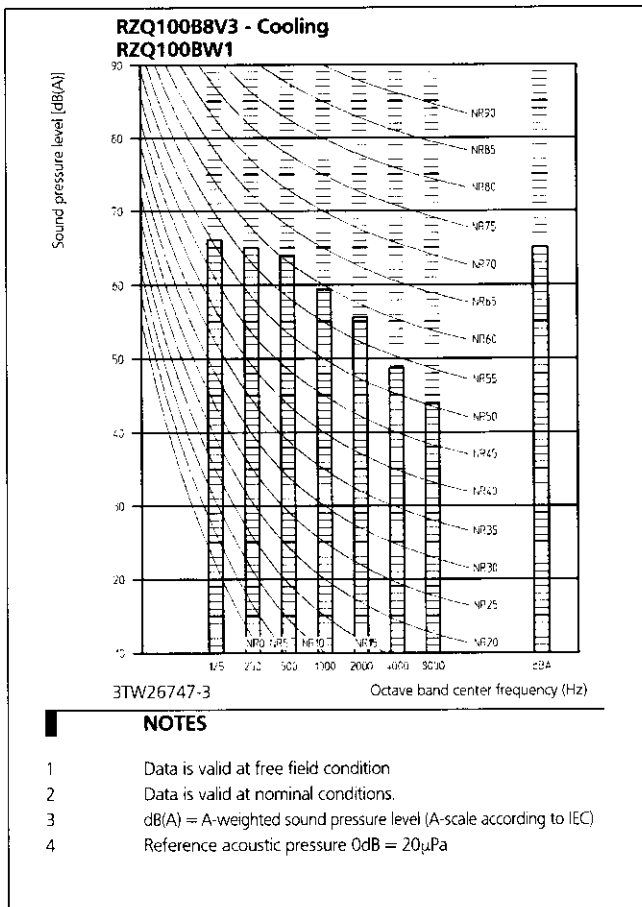
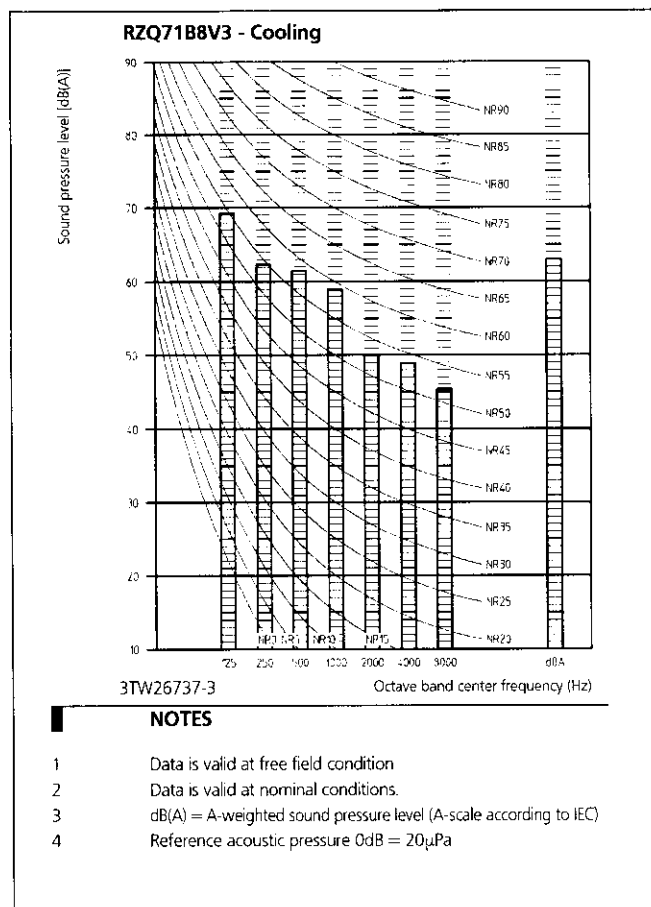
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- 3 Reference acoustic pressure 0dB = 20μPa
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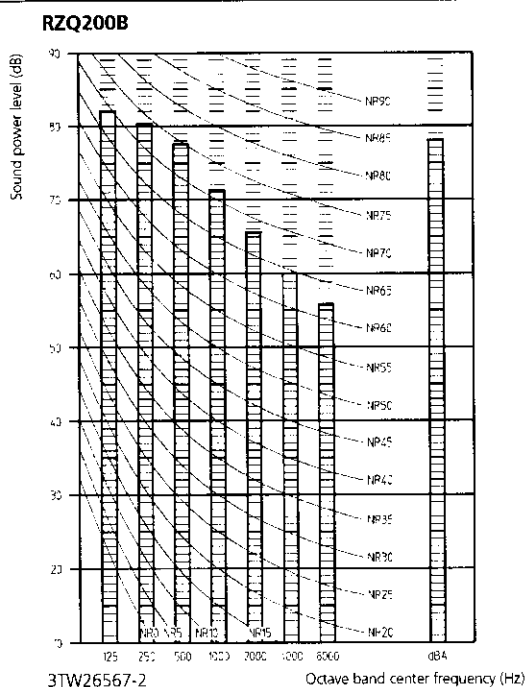
9 Sound data

9 - 2 Sound power spectrum



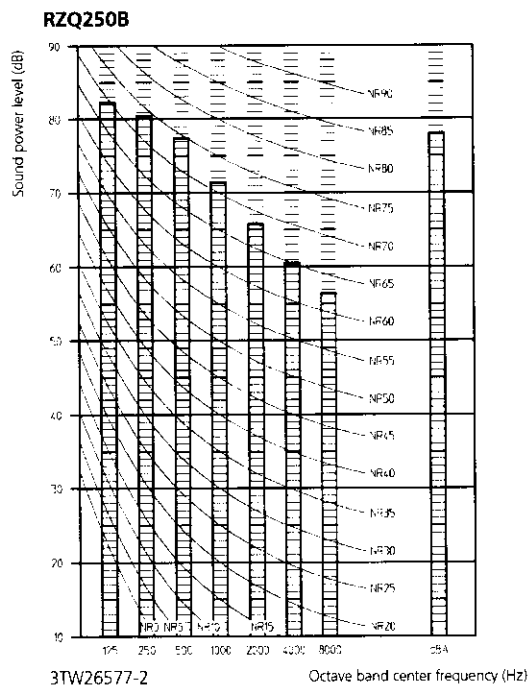
9 Sound data

9 - 2 Sound power spectrum



NOTES

- 1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 2 Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- 3 Measured according to ISO 3744



NOTES

- 1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 2 Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- 3 Measured according to ISO 3744

10 - 2 Refnet pipe systems

48

10 Installation

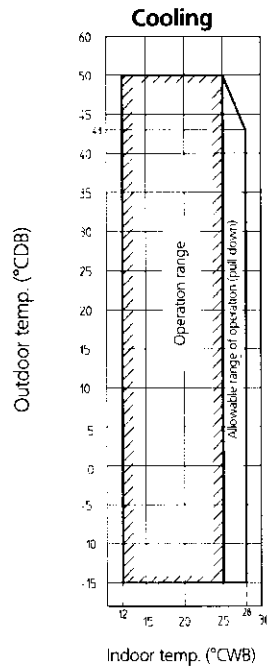
10 - 2 Refnet pipe systems

Closed pipes				Reducers - Expanders			
Liquid side junction	Discharge gas side junction	Suction gas side junction		Liquid side header	Discharge gas side header	Liquid side junction	

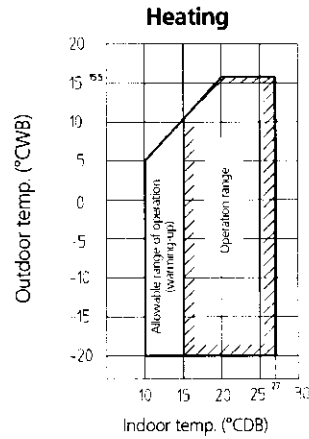
11 Operation range

11

RZQ71-100-125-140B



Model name	
RZQ71B8V3	RZQ100BW1
RZQ100B8V3	RZQ125BW1
RZQ125B8V3	RZQ140BW1

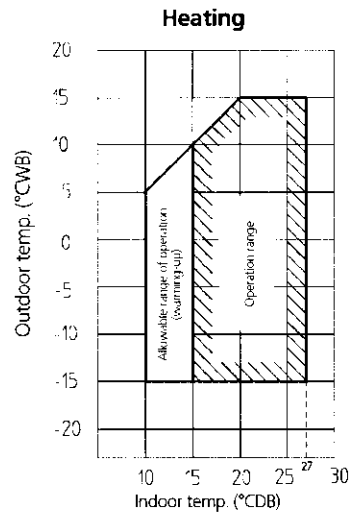
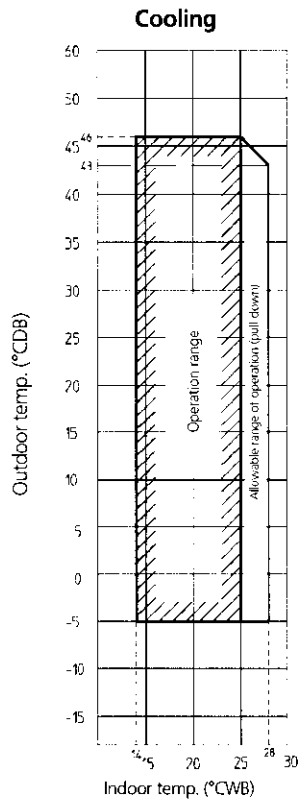


Notes:

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

3TW26733-1

RZQ200-250B



4TW26566-1

Split - Sky Air

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