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50TZ 40TZ/BZ - 38FZ

Nominal cooling capacity 6.5-22.7 kW

The compact, low-profile, air-cooled cooling units 50TZ are designed for installation in the void above false ceilings. They have a maximum height of 630 mm. They consist of the indoor unit 40BZ (40TZ for unit size 084) and the outdoor unit 38FZ.

Features

- The unit cabinet is made of prepainted sheet steel. All units include internal thermal and sound insulation.
- Interchangeable unit panels permit alternative supply and return air paths on all models.
- All models are easily transformed from packaged to split units by simply separating the two cabinet sections.
- Quiet, centrifugal fans with single-phase motors (except for sizes 072 and 084 which are three-phase) are statically and dynamically balanced for vibration-free operation.
- Reliable hermetic compressors for R-407C include overcurrent and overtemperature protection as well as internal and external vibration isolators.
- The heat exchangers are made of high-quality staggered copper tubing, mechanically bonded into pre-treated aluminium corrugated fins, with a high level of corrosion protection.
- The hermetically-sealed refrigerant circuit uses only deoxidized and dehydrated copper tubes, is leak-tested and includes a high/low pressure switch and a minimum pressure switch to detect refrigerant losses.

Master Link II

The control system consists of an electronic main board, which is standard for all unit sizes. It can read eight digital inputs and six analogue inputs.

The functions of the main board are:

- Running the application program
- Supervising the internal communications
- Controlling all other system elements
- Communication with the service network
- Reading the digital and analogue inputs
- Controlling the output relays
- Signalling the alarm codes
- Selecting the optional functions

The board includes various signalling LEDs that give information about system and unit operation. The status of these LEDs shows what maintenance and service operations are needed.

Options/accessories

	Option	Accessory
Head pressure control	x	x
Electric heaters	x	x
Crankcase heater	x	x
Hot water coil	x	x
Flare connections	x	
Outdoor air filter	x	x

Operating limits

Zone	Air temperature, °C	
	Dry bulb	Wet bulb
Indoor		
Maximum	35	21
Minimum	19	14
Outdoor		
Maximum	46	-
Minimum	19*	-

* With optional head pressure control the unit will operate at temperatures below 19°C.

Physical data

50TZ Packaged unit		024	036	042	048	060	072	084
Nominal cooling capacity*	kW	6.50	9.11	10.50	12.00	14.80	19.10	22.74
Weight	kg							
50TZ		168	193	211	241	267	329	381
40TZ/BZ		58	63	71	76	87	116	120
38FZ		110	130	140	165	180	213	261
Compressor		Hermetic reciprocating compressor						
Oil charge	l	1.18	1.50	1.65	1.65	1.65	1.65	2.84
Oil type		Mobil 22BC POE						
Refrigerant		R-407C						
Refrigerant charge**	kg	1.88	2.23	2.83	3.32	4.56	5.17	7.72
Indoor unit section (40TZ/BZ)		Copper tubes, pre-treated aluminium fins						
Face area	m ²	0.20	0.30	0.35	0.39	0.41	0.61	0.61
Rows ... fin spacing	mm	3 ... 1.82	3 ... 2.12	3 ... 2.12	3 ... 2.12	3 ... 2.12	3 ... 2.12	4 ... 2.12
Test pressure	bar	30	30	30	30	30	30	30
Indoor unit fan (40TZ/BZ)		One double-inlet ... centrifugal						
Nominal air flow	l/s	400	565	670	670	950	1320	1365
Nominal flow range	l/s	340-460	480-650	570-770	570-770	760-1090	1050-1520	1100-1570
Nominal static pressure (dry/wet)	Pa	50-40	60-50	60-50	60-50	90-80	120-110	120-110
Outdoor unit section (38FZ)		Copper tubes, pre-treated aluminium fins						
Face area	m ²	0.31	0.38	0.45	0.53	0.60	0.70	0.76
Rows ... fin spacing	mm	4 ... 1.82	4 ... 1.82	4 ... 1.82	5 ... 1.82	5 ... 1.59	5 ... 2.12	6 ... 2.12
Test pressure	bar	30	30	30	30	30	30	30
Outdoor unit fan (38FZ)		One double-inlet ... centrifugal						
Nominal air flow	l/s	530	800	865	865	1350	1650	1875
Nominal flow range	l/s	450-600	680-900	730-940	730-970	1085-1475	1320-1800	1500-2150
Nominal static pressure	Pa	30	30	30	40	50	50	50
Air filter		Filter class M1, thickness 7 mm						
Qty. ... width x height	mm	1 ... 312 x 336	1 ... 353 x 378	1 ... 387 x 394	1 ... 387 x 394	1 ... 397 x 434	1 ... 542 x 524	1 ... 542 x 524
Condensing unit 38FZ***								
Nominal cooling capacity	kW	6.00	8.22	9.00	11.22	13.95	17.38	20.25

Notes:

* Based on an outdoor air dry bulb temperature of 35°C and an indoor air wet bulb temperature of 19°C.

** The refrigerant charge given is for the complete system, and excludes the connection lines.

*** Based on an outdoor air temperature of 35°C and a dew point suction temperature of 7°C.

Electrical data

50TZ (40TZ/BZ + 38FZ)		024		036		042		048		060		072		084	
Nominal voltage (±10%)*	V	230	400	230	400	230	400	230	400	230	400	230	400	230	400
Nominal power input**	kW	2.90	2.90	3.99	3.99	4.68	4.68	5.07	5.07	7.37	7.37	10.08	10.08	10.75	10.75
Nominal current drawn**	A	13.33	6.30	12.50	8.74	15.58	11.50	16.98	12.23	25.49	18.54	30.12	17.41	33.19	19.18
Effective power input	kW	2.90	2.90	3.89	3.89	4.54	4.54	4.93	4.93	6.96	6.96	9.39	9.39	9.99	9.99
Effective current drawn	A	13.33	6.30	12.19	8.52	15.11	11.16	16.51	11.89	24.07	17.51	28.06	16.22	30.67	17.73
Starting current	A	86	46	99	60	117	72	134	81	159	105	170	90	162	105
Maximum power input***	kW	3.24	3.24	4.53	4.53	5.23	5.23	5.71	5.71	8.00	8.00	10.74	10.74	11.95	11.95
Maximum current drawn***	A	14.88	7.04	14.19	9.92	17.42	12.86	19.13	13.78	27.67	20.13	32.09	18.55	35.93	20.77

Notes:

* The unit power supply is three-phase (except size 024, 230 V which is single-phase). The fan power supply is single-phase, except for sizes 072 and 084 which are three-phase.

** Based on an outdoor air dry bulb temperature of 35°C and an indoor air wet bulb temperature of 19°C and dry bulb temperature of 27°C.

*** Based on an outdoor air dry bulb temperature of 46°C and an indoor air wet bulb temperature of 21°C.

Effective power input in accordance with EUROVENT.

38FZ		024		036		042		048		060		072		084	
Nominal voltage (±10%)*	V	230	400	230	400	230	400	230	400	230	400	230	400	230	400
Nominal power input**	kW	2.45	2.45	3.63	3.63	4.04	4.04	4.51	4.51	6.49	6.49	8.52	8.52	9.16	9.16
Nominal current drawn**	A	11.25	5.32	11.37	7.95	13.45	9.93	15.11	10.89	22.45	16.33	25.46	14.72	28.27	16.34
Effective power input	kW	2.45	2.45	3.63	3.63	4.04	4.04	4.51	4.51	6.26	6.26	8.24	8.24	8.85	8.85
Effective current drawn	A	11.26	5.32	11.38	7.95	13.45	9.93	15.10	10.88	21.65	15.75	24.62	14.23	27.31	15.79
Starting current	A	84.6	44.6	97.1	58.1	114.6	69.6	131.6	78.6	154.8	100.8	166.5	88.0	157.2	102.2
Maximum power input***	kW	3.02	3.02	4.14	4.14	4.66	4.66	5.38	5.38	7.60	7.60	10.06	10.06	10.75	10.75
Maximum current drawn***	A	13.9	6.6	13.0	9.1	15.5	11.5	18.0	13.0	26.3	19.1	30.1	17.4	33.19	19.18

* The unit power supply is three-phase (except size 024, 230 V which is single-phase). The fan power supply is single-phase, except for sizes 072 and 084 which are three-phase.

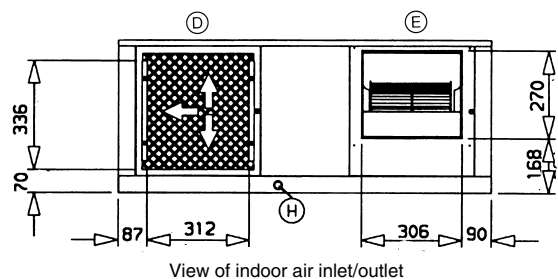
** Based on an outdoor air dry bulb temperature of 35°C and a suction dew point temperature of 7°C.

*** Based on an outdoor air dry bulb temperature of 46°C and a suction dew point temperature of 12°C.

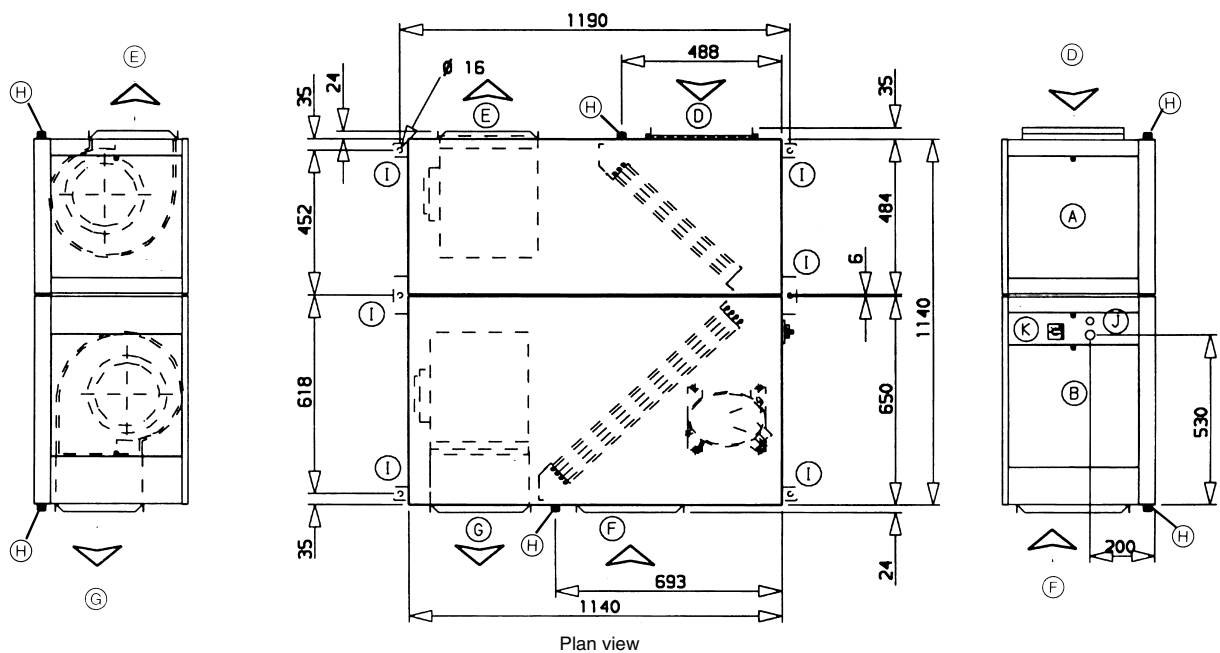
Effective power input in accordance with EUROVENT.

Dimensions, mm

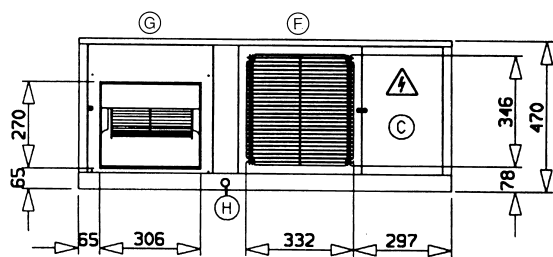
50TZ 024



View of indoor air inlet/outlet



Plan view



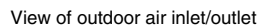
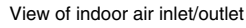
View of outdoor air inlet/outlet

- | | | | |
|-----|--------------------------|-----|------------------------|
| (A) | Evaporator access panel | (G) | Condenser air outlet |
| (B) | Compressor access panel | (H) | Drain 3/4" MPT |
| (C) | Control box access panel | (I) | Unit supports |
| (D) | Evaporator air inlet | (J) | Cable entry |
| (E) | Evaporator air outlet | (K) | Main disconnect switch |
| (F) | Condenser air inlet | | |

Nota: Standard supply/return air arrangement

When designing an installation, always use up-to-date drawings, available from your local Carrier office.

50TZ 036

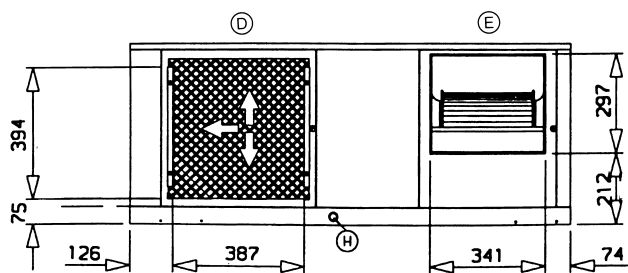


- (A) Evaporator access panel
(B) Compressor access panel
(C) Control box access panel
(D) Evaporator air inlet
(E) Evaporator air outlet
(F) Condenser air inlet
(G) Condenser air outlet
(H) Drain 3/4" MPT
(I) Unit supports
(J) Cable entry
(K) Main disconnect switch

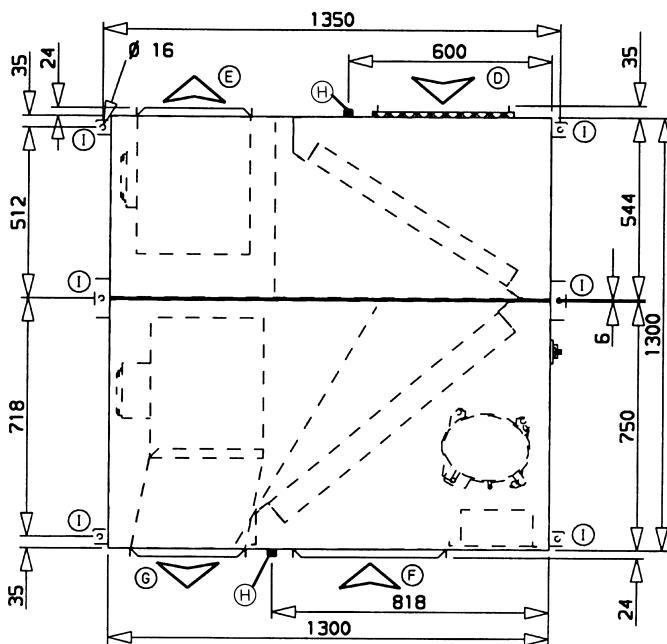
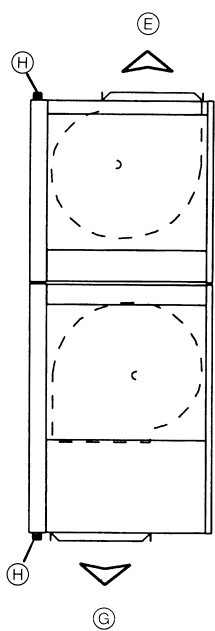
Nota: Standard supply/return air arrangement

When designing an installation, always use up-to-date drawings, available from your local Carrier office.

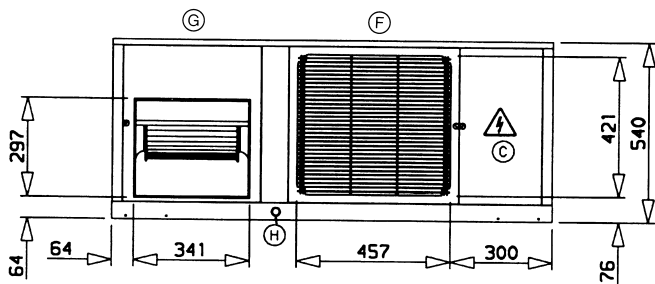
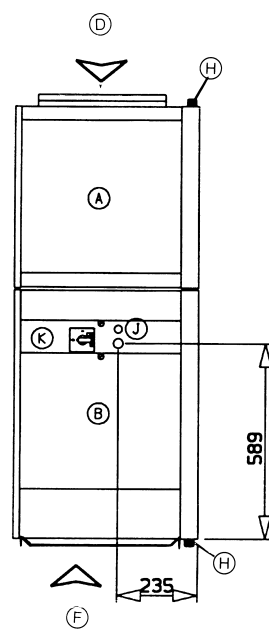
50TZ 042



View of indoor air inlet/outlet



Plan view



View of outdoor air inlet/outlet

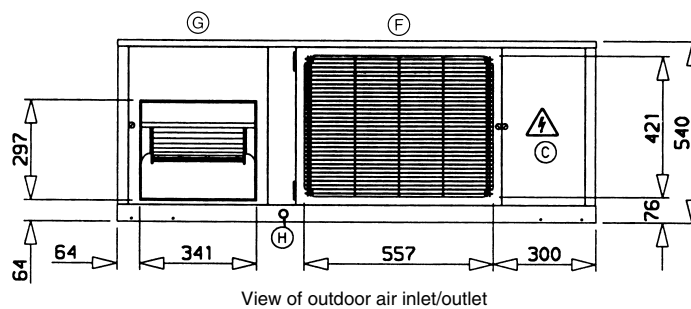
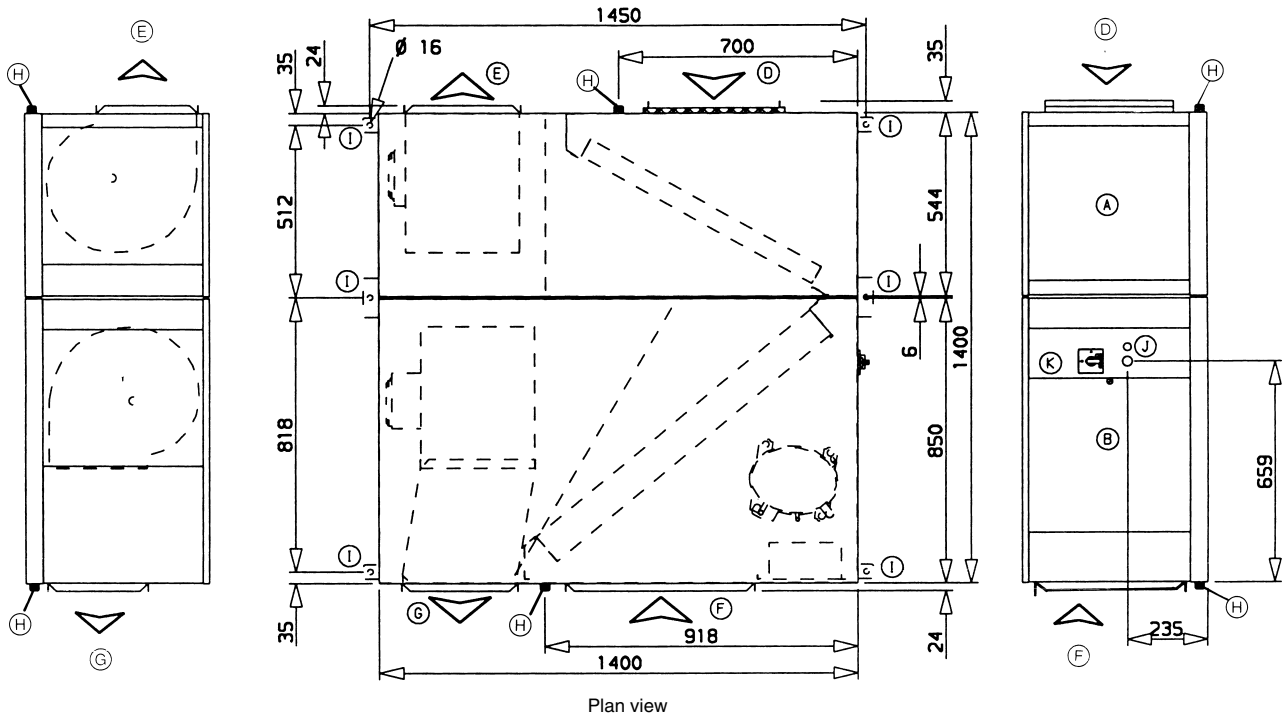
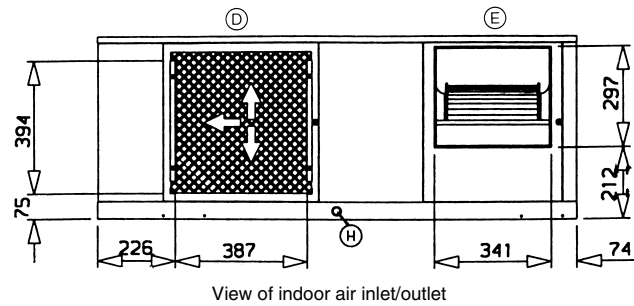
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|------------------------------|----------------------------|
| (A) Evaporator access panel | (G) Condenser air outlet |
| (B) Compressor access panel | (H) Drain 3/4" MPT |
| (C) Control box access panel | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |
| (E) Evaporator air outlet | (K) Main disconnect switch |
| (F) Condenser air inlet | |

Nota: Standard supply/return air arrangement

When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

50TZ 048



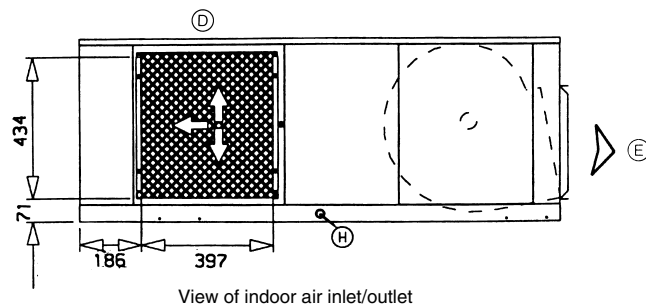
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|------------------------------|----------------------------|
| (A) Evaporator access panel | (G) Condenser air outlet |
| (B) Compressor access panel | (H) Drain 3/4" MPT |
| (C) Control box access panel | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |
| (E) Evaporator air outlet | (K) Main disconnect switch |
| (F) Condenser air inlet | |

Nota: Standard supply/return air arrangement

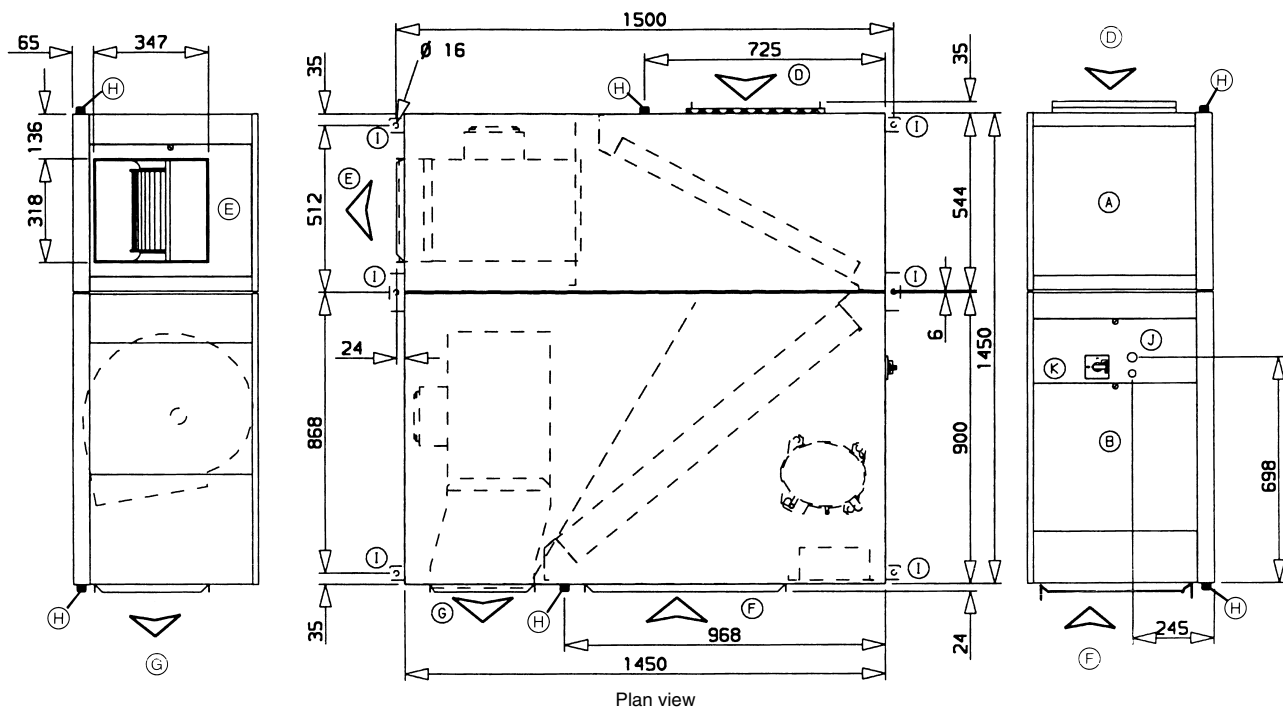
When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

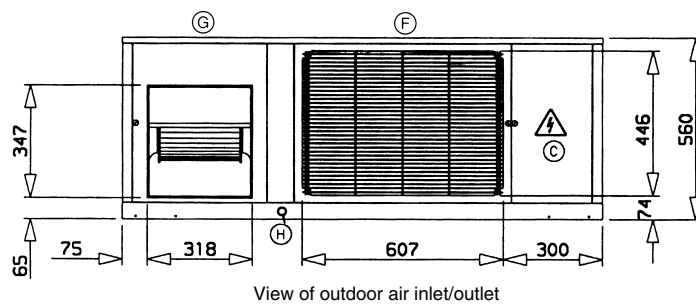
50TZ 060



View of indoor air inlet/outlet



Plan view



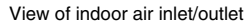
View of outdoor air inlet/outlet

- | | |
|------------------------------|----------------------------|
| (A) Evaporator access panel | (G) Condenser air outlet |
| (B) Compressor access panel | (H) Drain 3/4" MPT |
| (C) Control box access panel | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |
| (E) Evaporator air outlet | (K) Main disconnect switch |
| (F) Condenser air inlet | |

Nota: Standard supply/return air arrangement

When designing an installation, always use up-to-date drawings, available from your local Carrier office.

50TZ 072

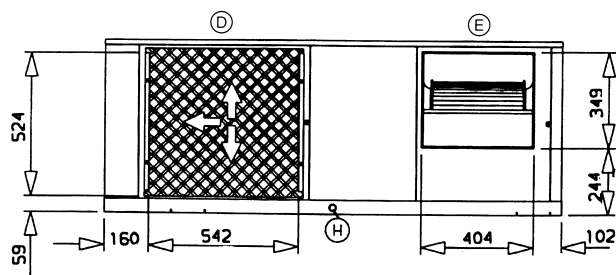


- (A) Evaporator access panel
- (B) Compressor access panel
- (C) Control box access panel
- (D) Evaporator air inlet
- (E) Evaporator air outlet
- (F) Condenser air inlet

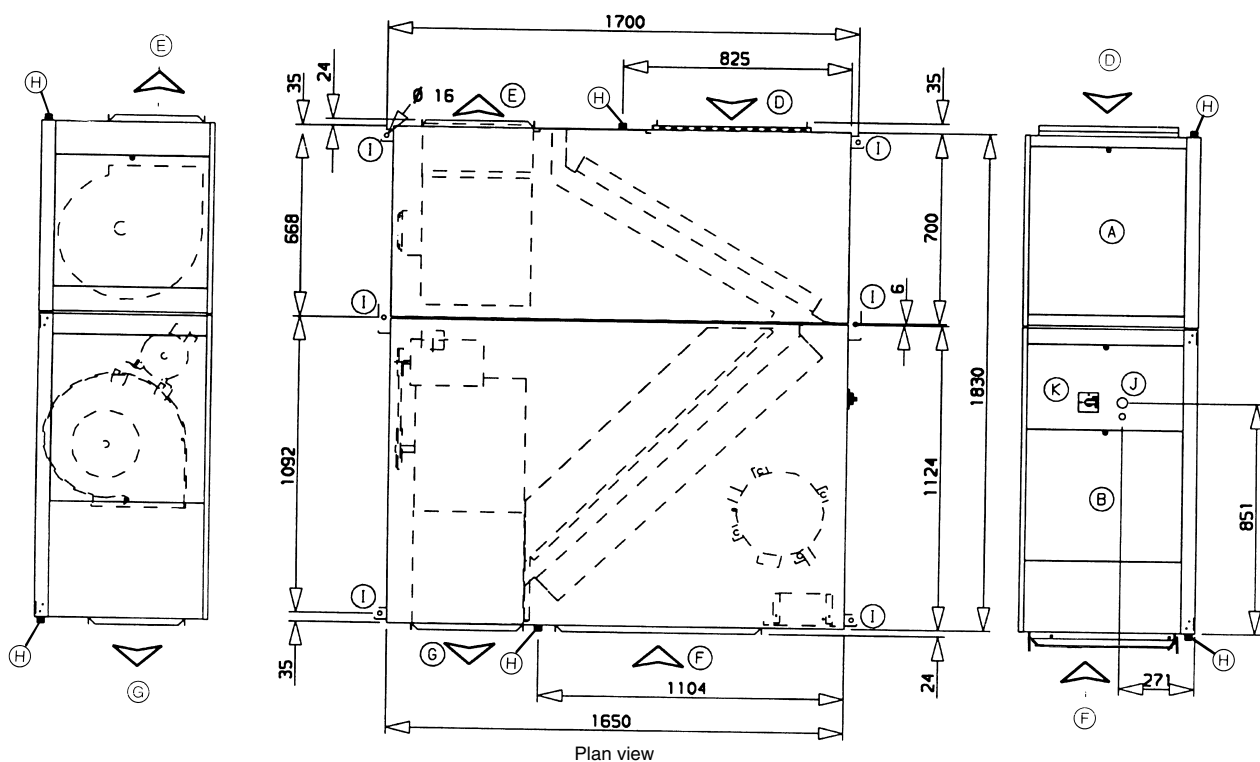
When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

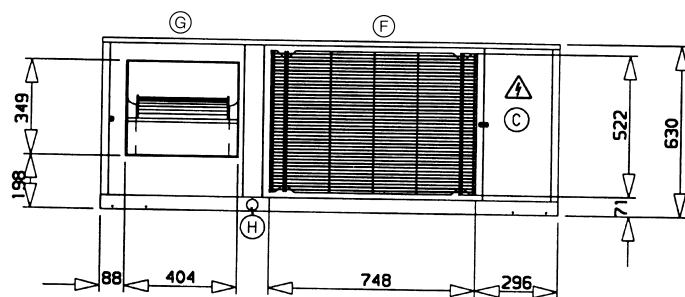
50TZ 084



View of indoor air inlet/outlet



Plan view



View of outdoor air inlet/outlet

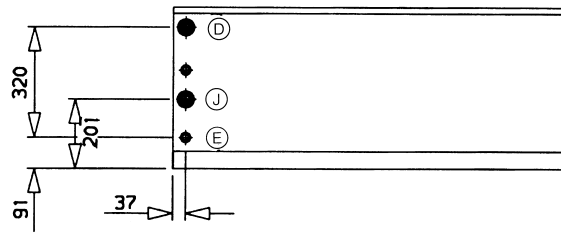
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| (A) Evaporator access panel | (G) Condenser air outlet |
| (B) Compressor access panel | (H) Drain 3/4" MPT |
| (C) Control box access panel | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |
| (E) Evaporator air outlet | (K) Main disconnect switch |
| (F) Condenser air inlet | |

Nota: Standard supply/return air arrangement

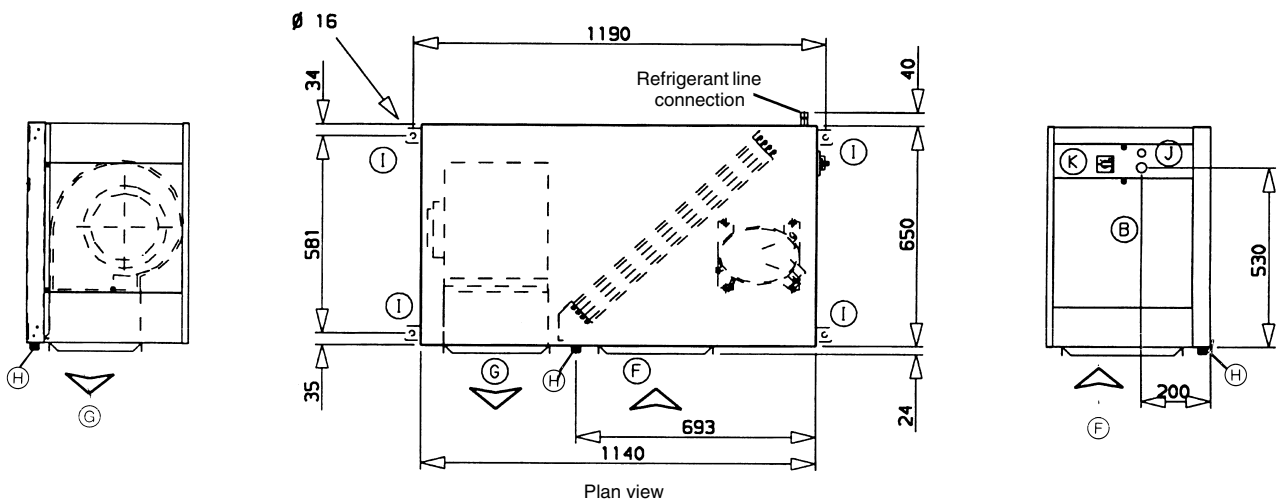
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Dimensions, mm

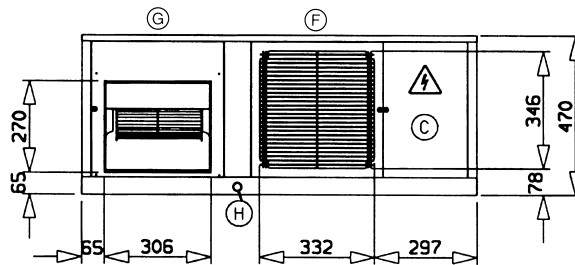
38FZ 024



View of refrigerant line connections side



Plan view



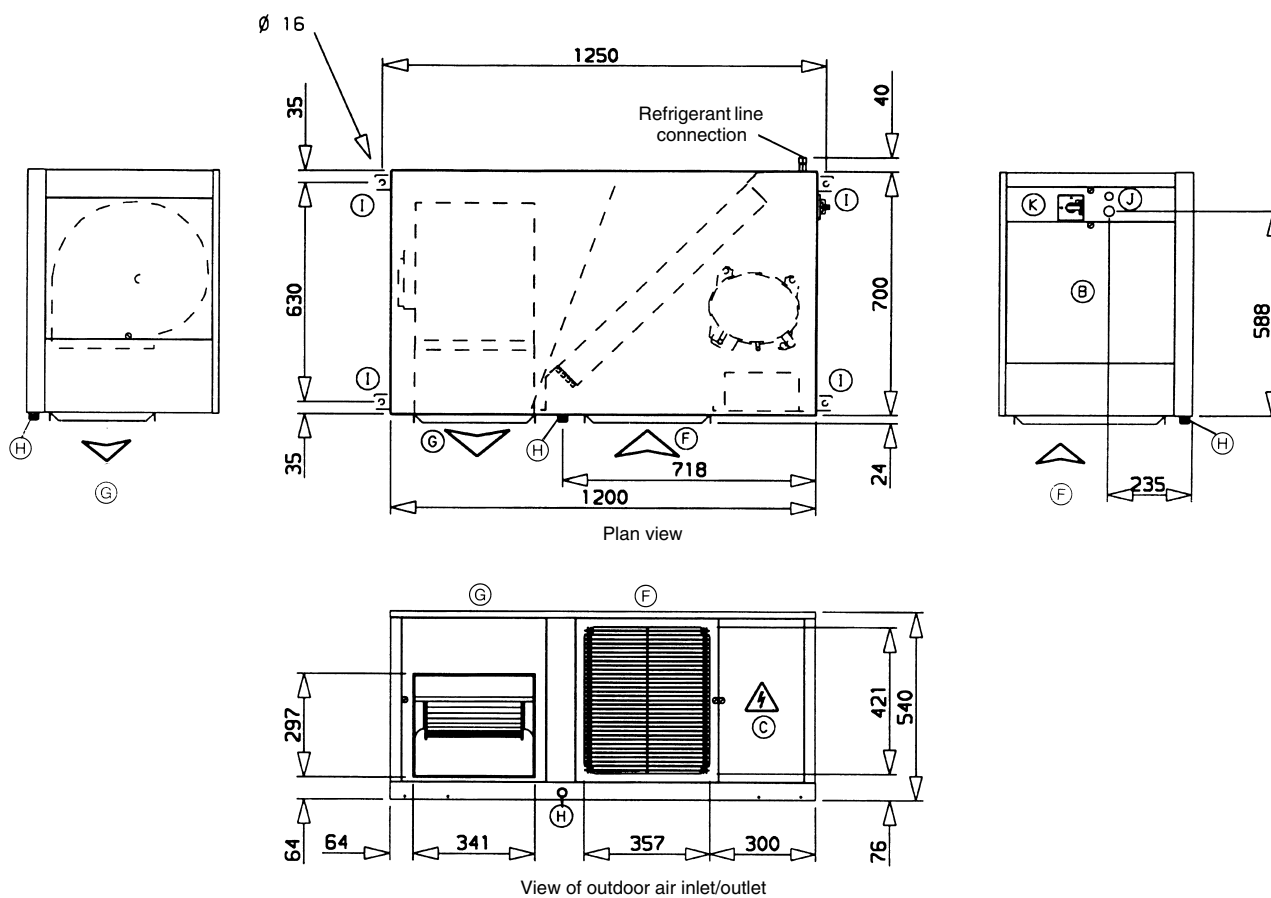
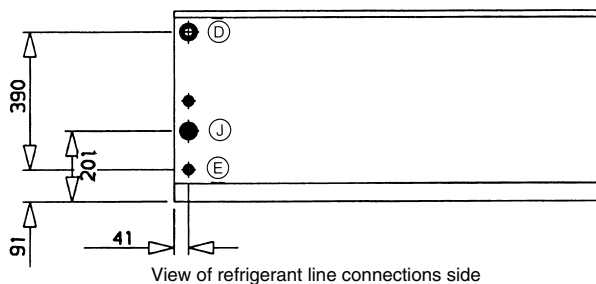
View of outdoor air inlet/outlet

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|-------------------------------------|----------------------------|
| (B) Compressor access panel | (G) Condenser air outlet |
| (C) Control box access panel | (H) Drain 3/4" MPT |
| (D) Suction line $\varnothing$ 5/8" | (I) Unit supports |
| (E) Liquid line $\varnothing$ 3/8" | (J) Cable entry |
| (F) Condenser air inlet | (K) Main disconnect switch |

Nota: Standard supply/return air arrangement

Dimensions, mm

38FZ 036



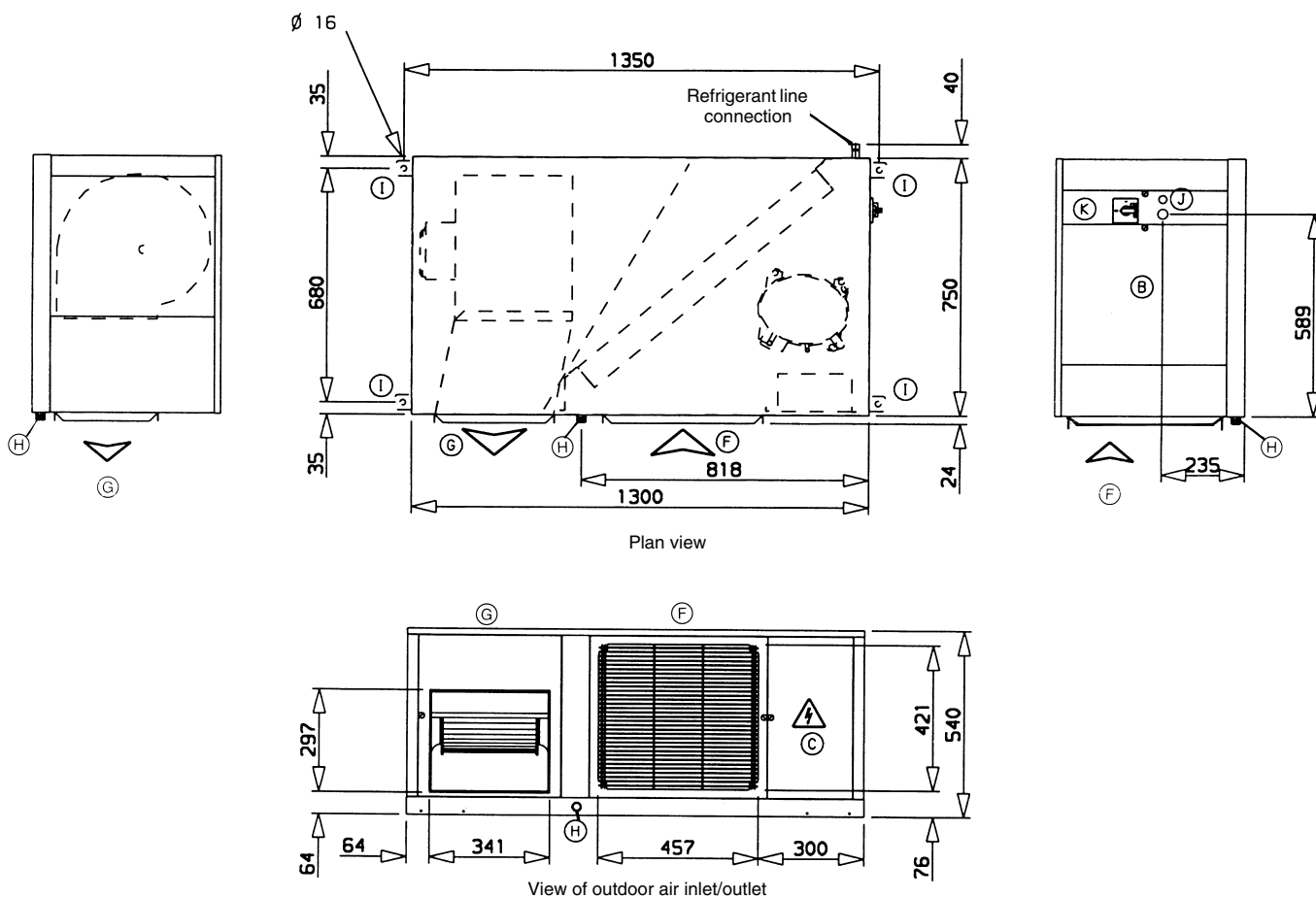
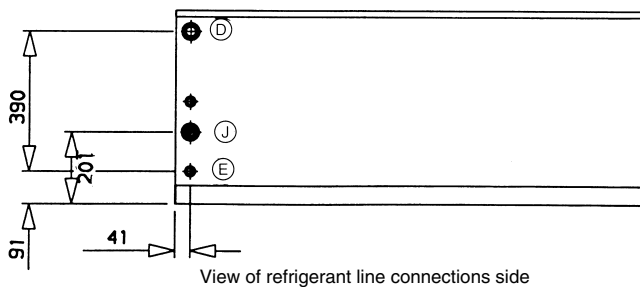
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| (B) Compressor access panel | (G) Condenser air outlet |
| (C) Control box access panel | (H) Drain 3/4" MPT |
| (D) Suction line ø 3/4" | (I) Unit supports |
| (E) Liquid line ø 3/8" | (J) Cable entry |
| (F) Condenser air inlet | (K) Main disconnect switch |

Nota: Standard supply/return air arrangement

When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

38FZ 042

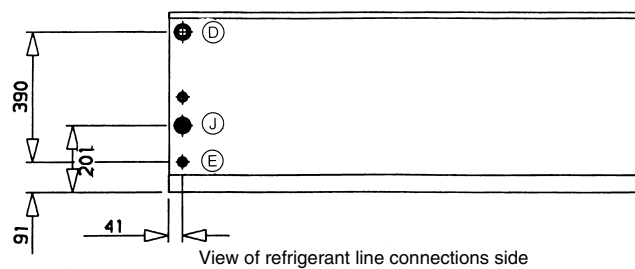


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|-------------------------------------|----------------------------|
| (B) Compressor access panel | (G) Condenser air outlet |
| (C) Control box access panel | (H) Drain 3/4" MPT |
| (D) Suction line $\varnothing$ 3/4" | (I) Unit supports |
| (E) Liquid line $\varnothing$ 3/8" | (J) Cable entry |
| (F) Condenser air inlet | (K) Main disconnect switch |

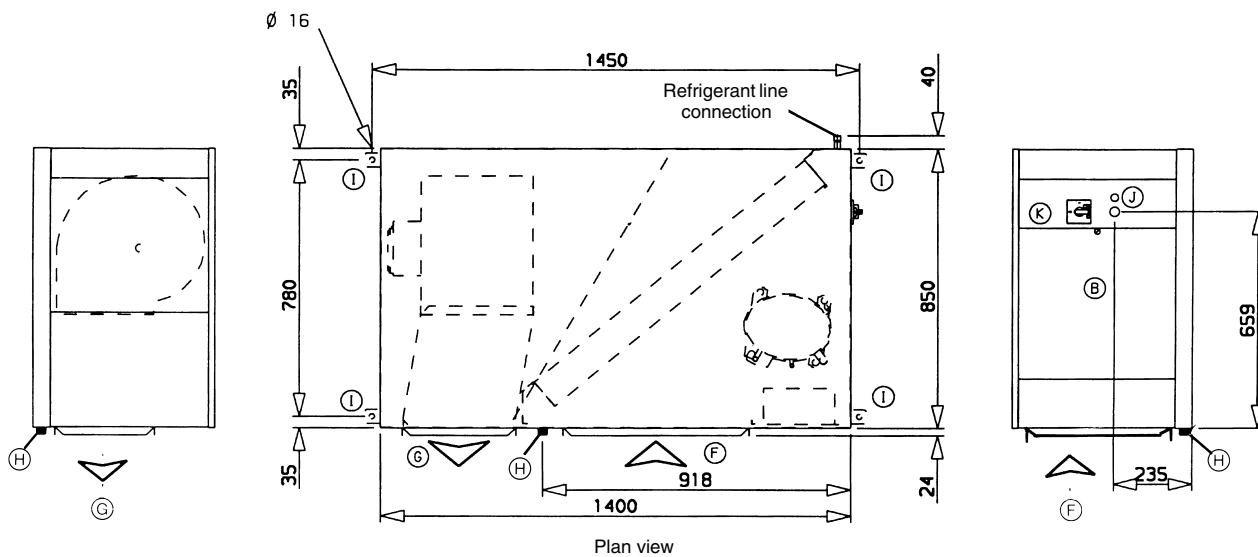
Nota: Standard supply/return air arrangement

Dimensions, mm

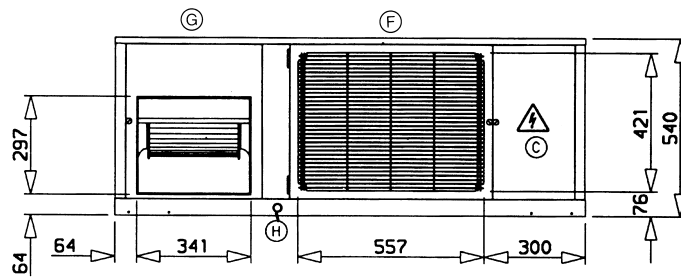
38FZ 048



View of refrigerant line connections side



Plan view



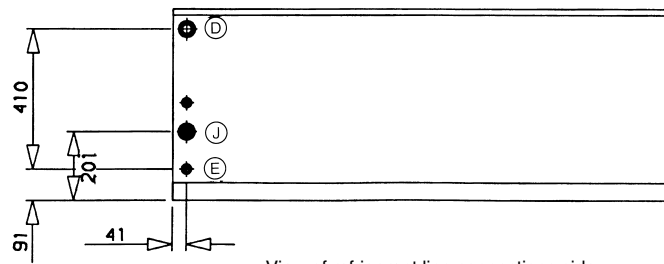
View of outdoor air inlet/outlet

- | | |
|-------------------------------------|----------------------------|
| (B) Compressor access panel | (G) Condenser air outlet |
| (C) Control box access panel | (H) Drain 3/4" MPT |
| (D) Suction line $\varnothing$ 7/8" | (I) Unit supports |
| (E) Liquid line $\varnothing$ 3/8" | (J) Cable entry |
| (F) Condenser air inlet | (K) Main disconnect switch |

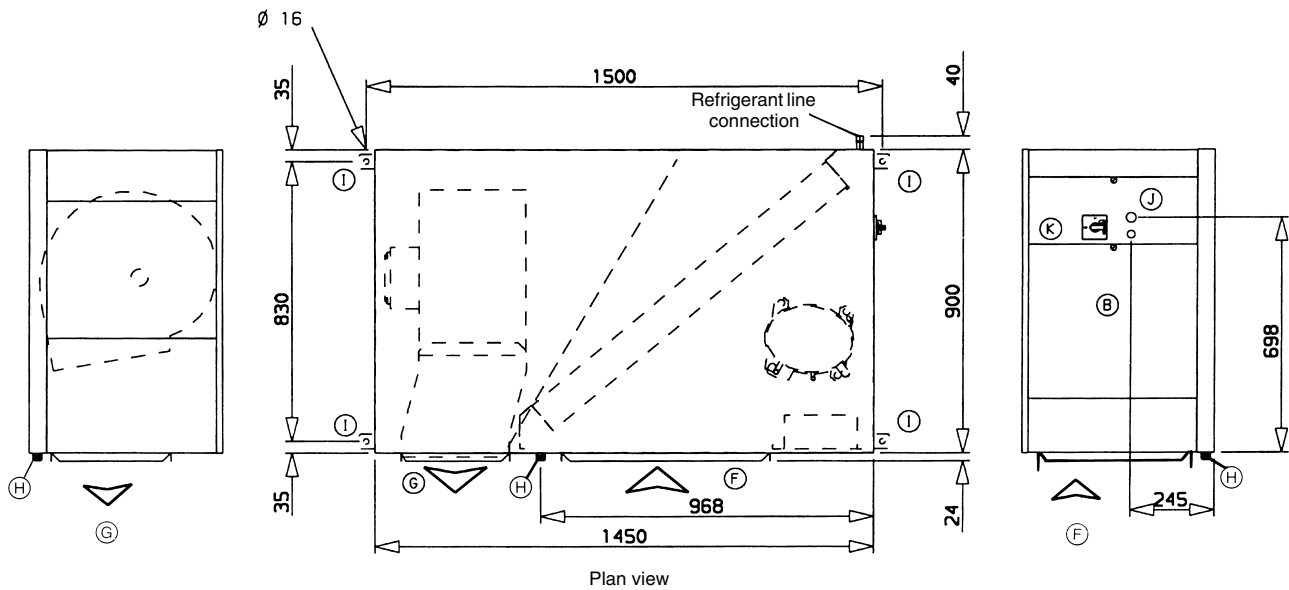
Nota: Standard supply/return air arrangement

Dimensions, mm

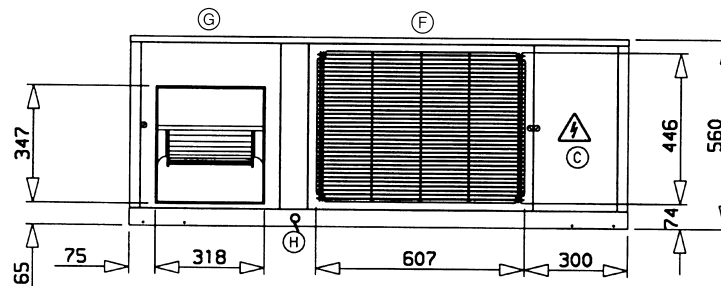
38FZ 060



View of refrigerant line connections side



Plan view



View of outdoor air inlet/outlet

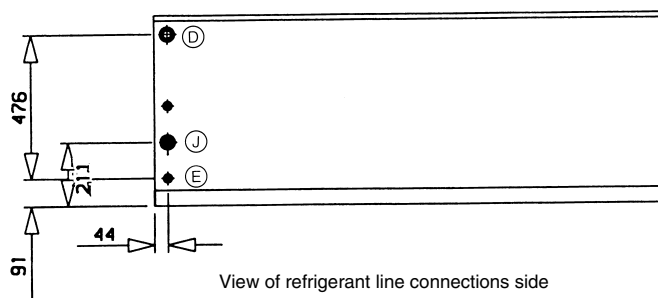
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|------------------------------|----------------------------|
| (B) Compressor access panel | (G) Condenser air outlet |
| (C) Control box access panel | (H) Drain 3/4" MPT |
| (D) Suction line ø 7/8" | (I) Unit supports |
| (E) Liquid line ø 3/8" | (J) Cable entry |
| (F) Condenser air inlet | (K) Main disconnect switch |

Nota: Standard supply/return air arrangement

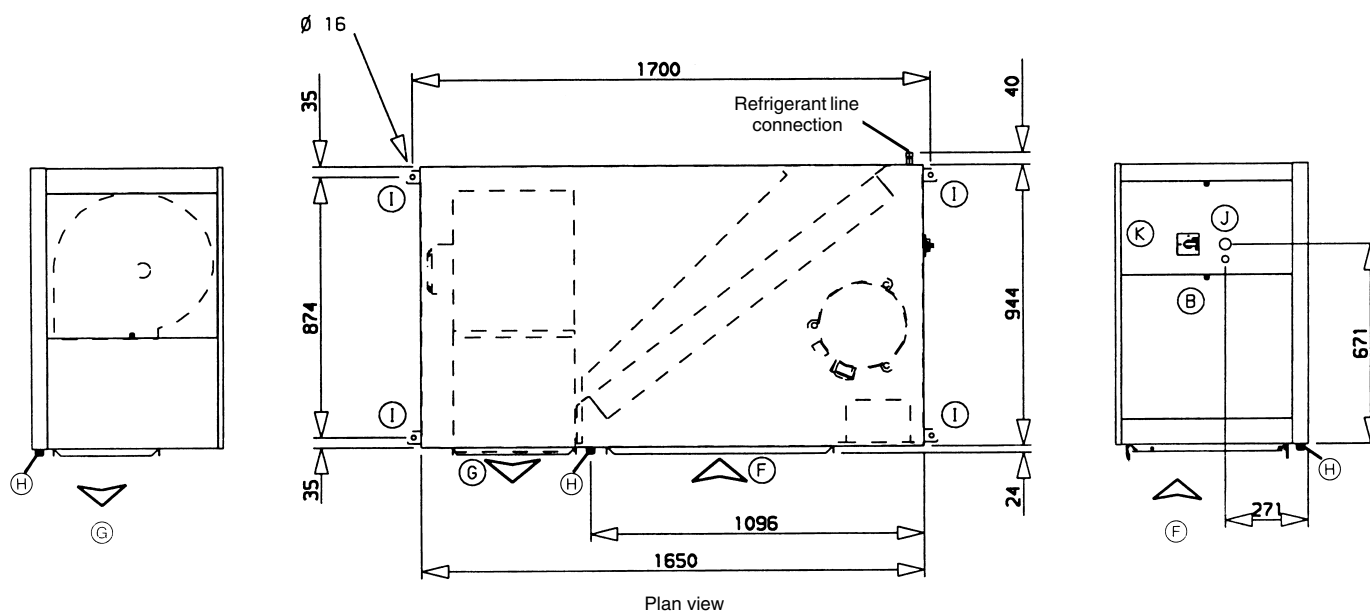
When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

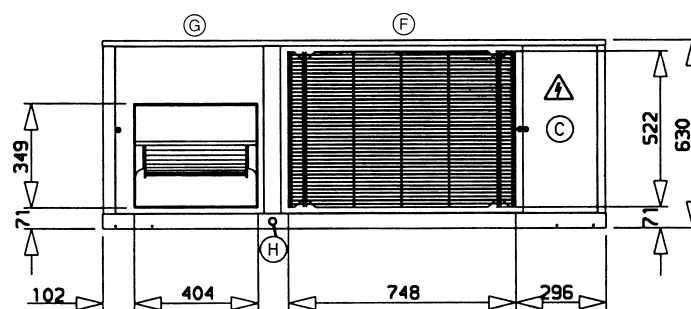
38FZ 072



View of refrigerant line connections side



Plan view



View of outdoor air inlet/outlet

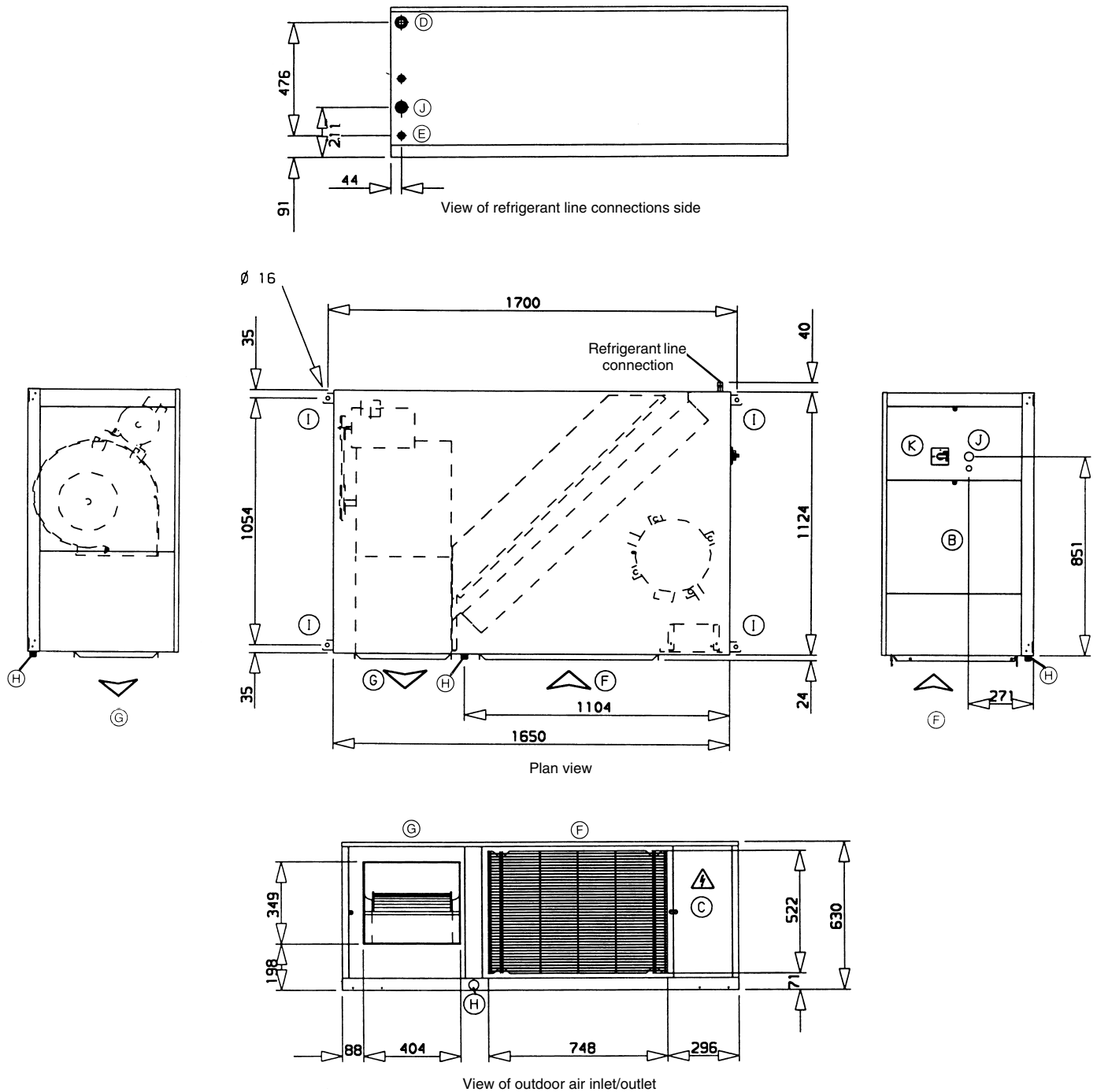
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|--------------------------------|----------------------------|
| (B) Compressor access panel | (G) Condenser air outlet |
| (C) Control box access panel | (H) Drain 3/4" MPT |
| (D) Suction line ϕ 1-1/8" | (I) Unit supports |
| (E) Liquid line ϕ 5/8" | (J) Cable entry |
| (F) Condenser air inlet | (K) Main disconnect switch |

Nota: Standard supply/return air arrangement

When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

38FZ 084



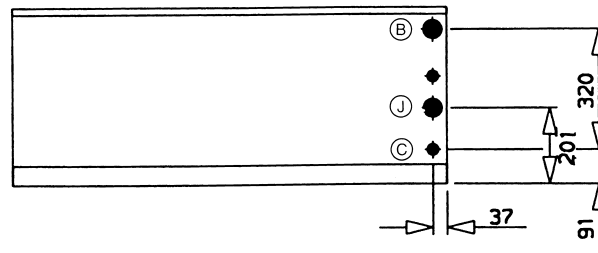
- | | |
|---------------------------------------|----------------------------|
| (B) Compressor access panel | (G) Condenser air outlet |
| (C) Control box access panel | (H) Drain 3/4" MPT |
| (D) Suction line $\varnothing$ 1-1/8" | (I) Unit supports |
| (E) Liquid line $\varnothing$ 5/8" | (J) Cable entry |
| (F) Condenser air inlet | (K) Main disconnect switch |

Nota: Standard supply/return air arrangement

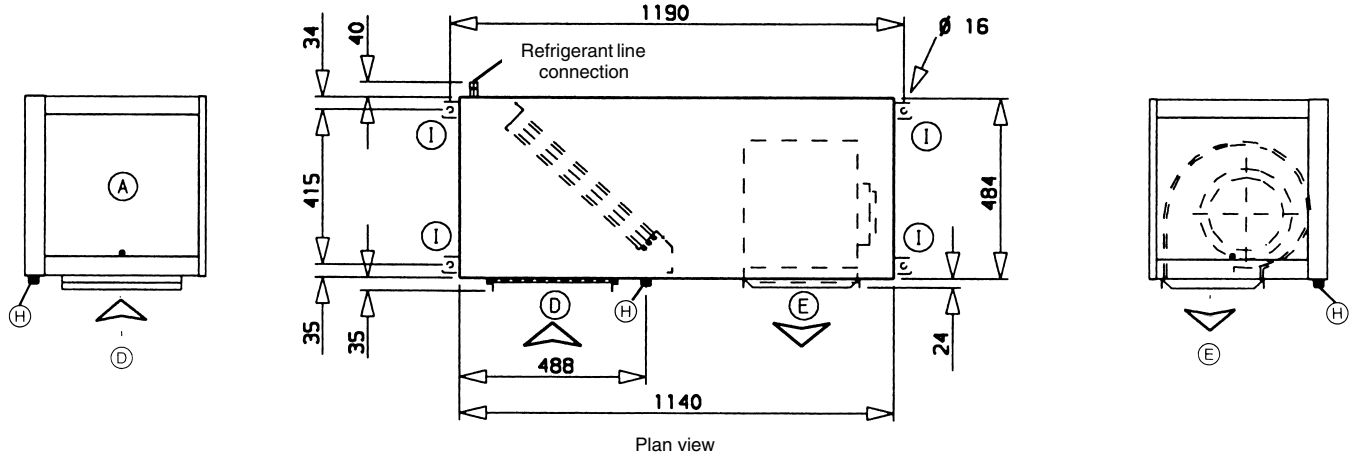
When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

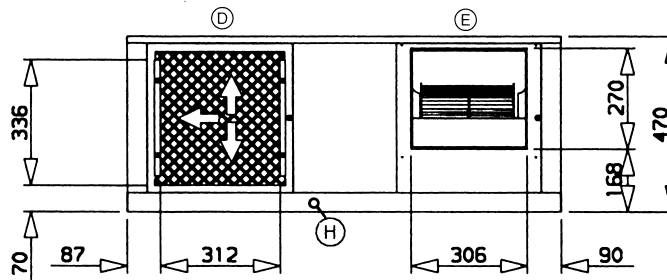
40BZ 024



View of refrigerant line connections side



Plan view



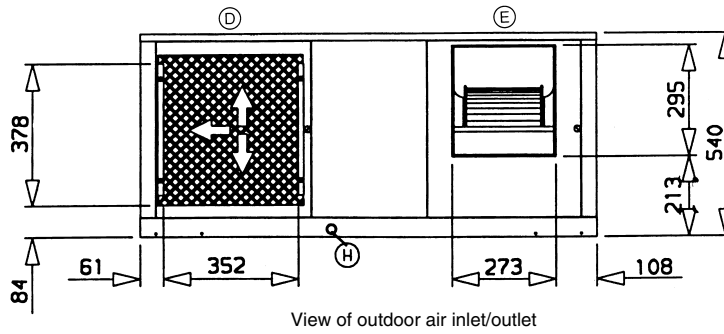
View of outdoor air inlet/outlet

- | | |
|-------------------------------------|---------------------------|
| (A) Evaporator access panel | (E) Evaporator air outlet |
| (B) Suction line $\varnothing$ 5/8" | (H) Drain 3/4" MPT |
| (C) Liquid line $\varnothing$ 3/8" | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |

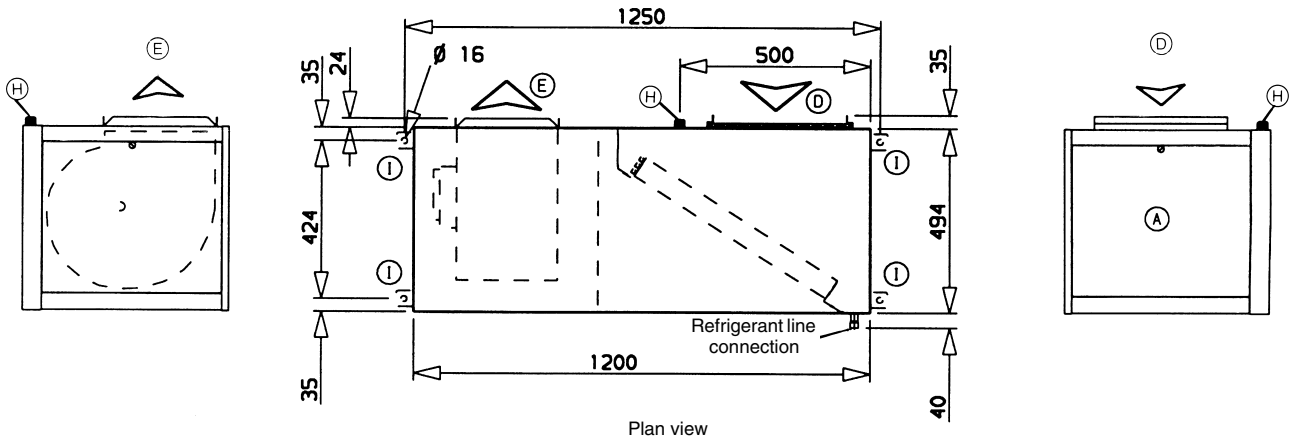
Nota: Standard supply/return air arrangement

Dimensions, mm

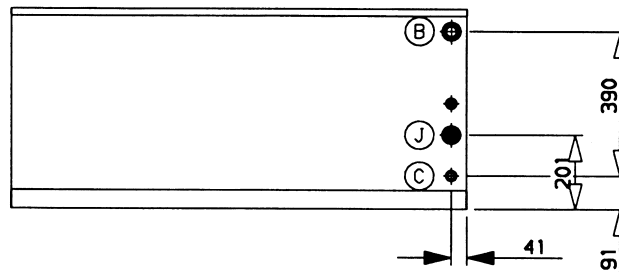
40BZ 036



View of outdoor air inlet/outlet



Plan view



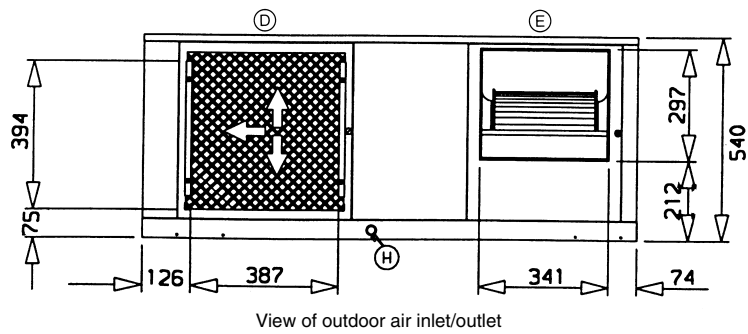
View of refrigerant line connections side

- | | |
|-------------------------------------|---------------------------|
| (A) Evaporator access panel | (E) Evaporator air outlet |
| (B) Suction line $\varnothing$ 3/4" | (H) Drain 3/4" MPT |
| (C) Liquid line $\varnothing$ 3/8" | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |

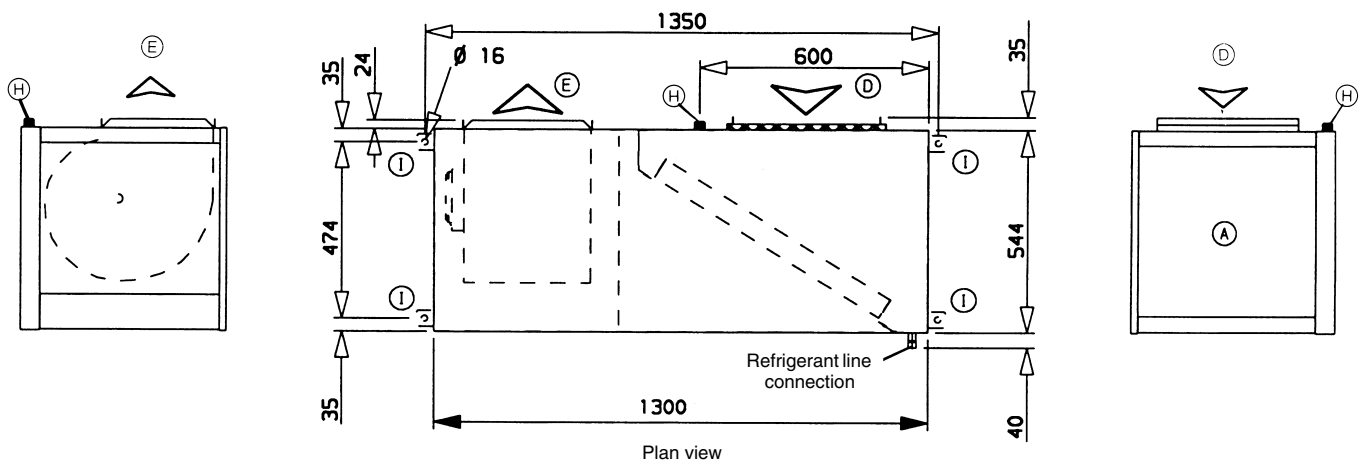
Nota: Standard supply/return air arrangement

Dimensions, mm

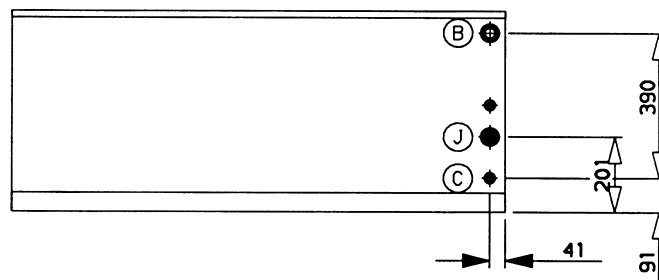
40BZ 042



View of outdoor air inlet/outlet



Plan view

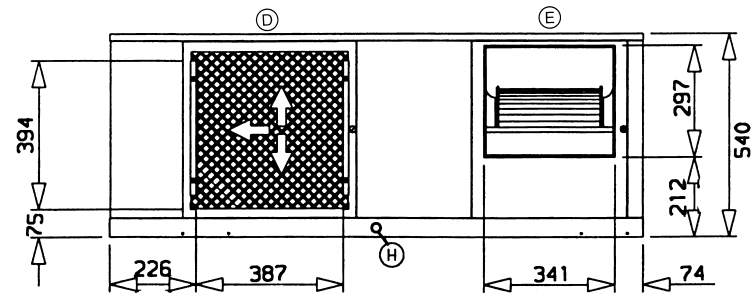


View of refrigerant line connections side

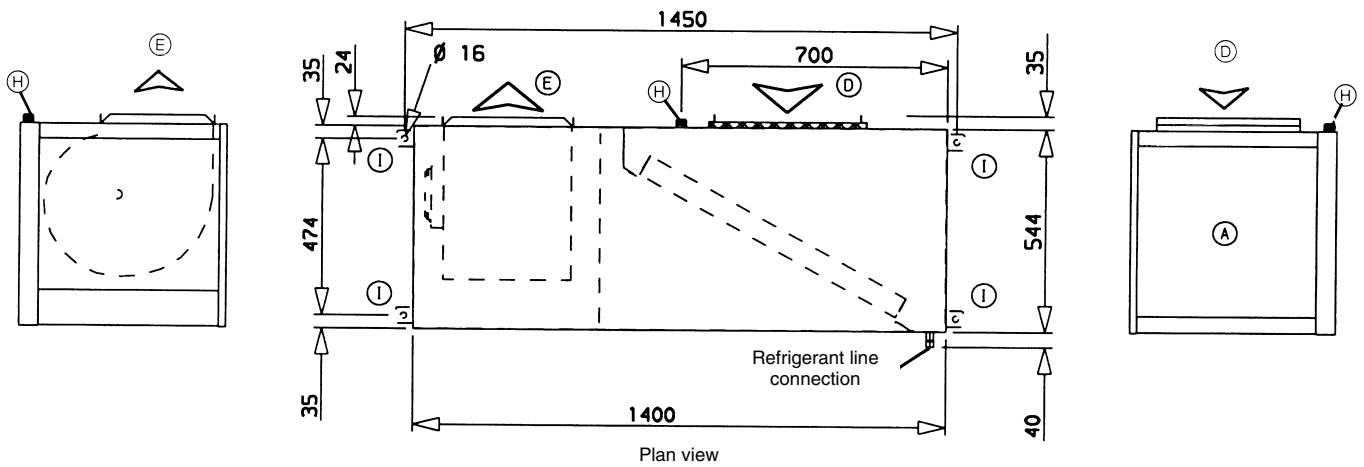
- | | |
|-------------------------------------|---------------------------|
| (A) Evaporator access panel | (E) Evaporator air outlet |
| (B) Suction line $\varnothing$ 3/4" | (H) Drain 3/4" MPT |
| (C) Liquid line $\varnothing$ 3/8" | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |

Nota: Standard supply/return air arrangement

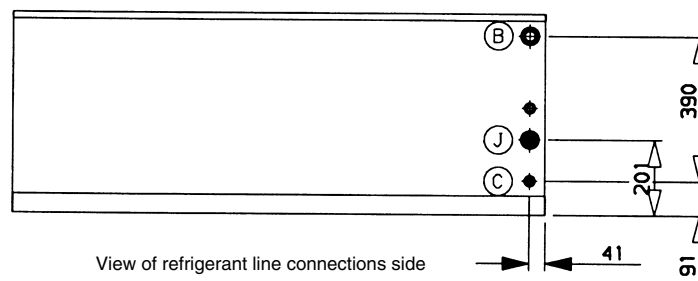
40BZ 048



View of outdoor air inlet/outlet



Plan view

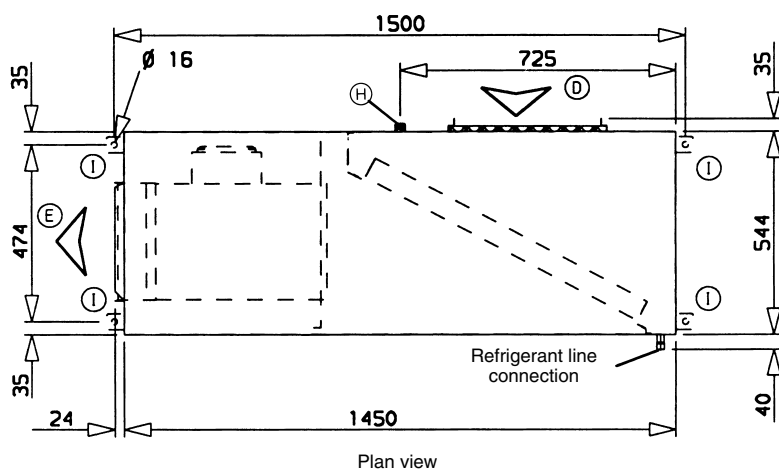


View of refrigerant line connections side

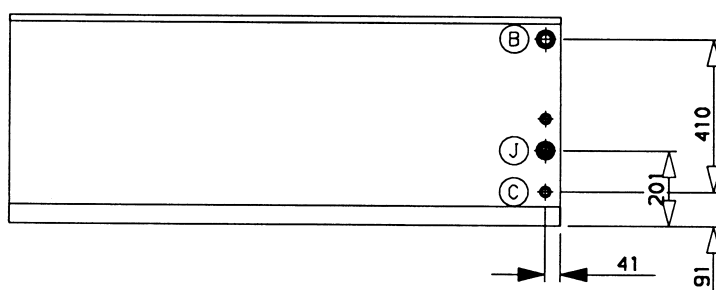
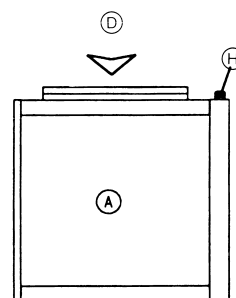
- | | |
|-----------------------------|---------------------------|
| (A) Evaporator access panel | (E) Evaporator air outlet |
| (B) Suction line ø 7/8" | (H) Drain 3/4" MPT |
| (C) Liquid line ø 3/8" | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |

Nota: Standard supply/return air arrangement

40BZ 060



Plan view



View of refrigerant line connections side

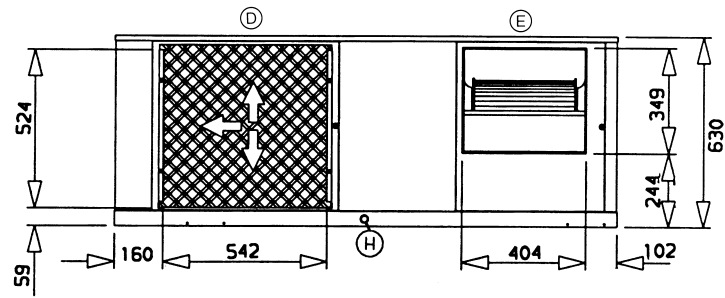
- | | |
|-------------------------------------|---------------------------|
| (A) Evaporator access panel | (E) Evaporator air outlet |
| (B) Suction line $\varnothing$ 7/8" | (H) Drain 3/4" MPT |
| (C) Liquid line $\varnothing$ 3/8" | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |

Nota: Standard supply/return air arrangement

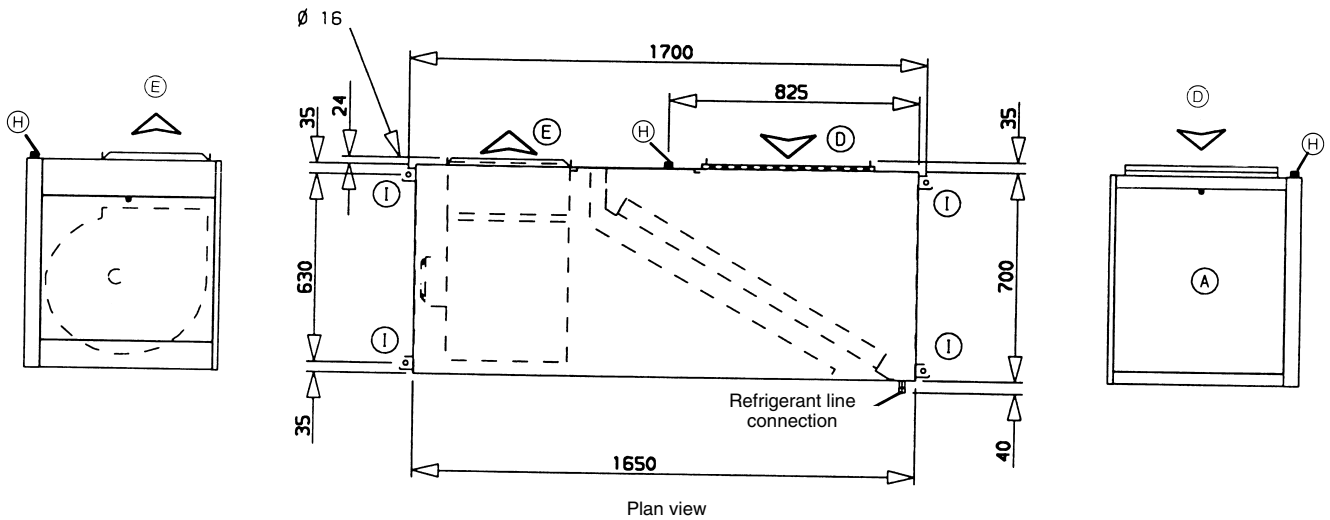
When designing an installation, always use up-to-date drawings, available from your local Carrier office.

Dimensions, mm

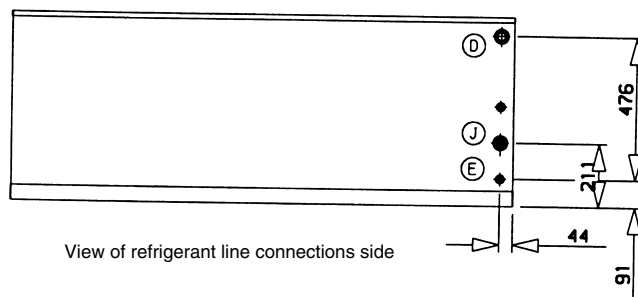
40BZ 072



View of outdoor air inlet/outlet



Plan view

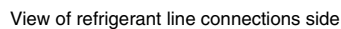


View of refrigerant line connections side

- | | |
|--------------------------------|---------------------------|
| (A) Evaporator access panel | (E) Evaporator air outlet |
| (B) Suction line ϕ 1-1/8" | (H) Drain 3/4" MPT |
| (C) Liquid line ϕ 5/8" | (I) Unit supports |
| (D) Evaporator air inlet | (J) Cable entry |

Nota: Standard supply/return air arrangement

40TZ 084



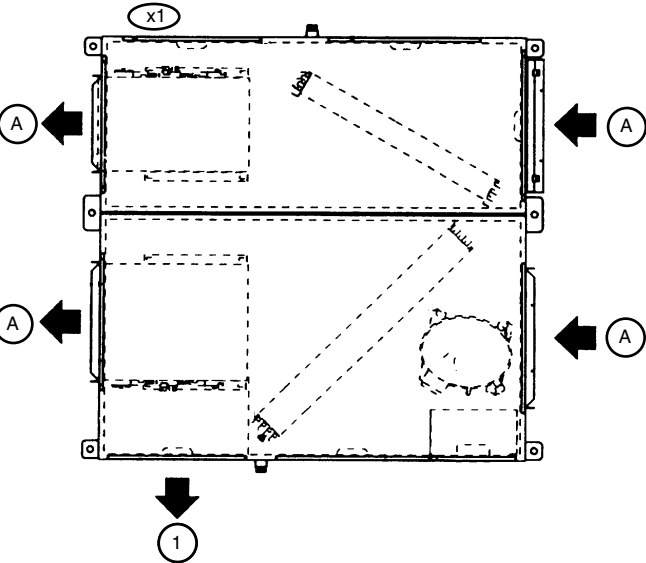
- (E) Evaporator air outlet

Nota: Standard supply/return air arrangement

When designing an installation, always use up-to-date drawings, available from your local Carrier office.

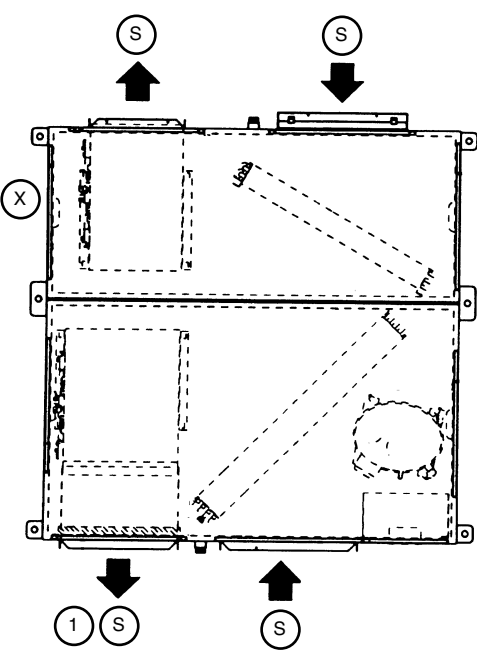
Air flow arrangements

Alternatives **(A)**



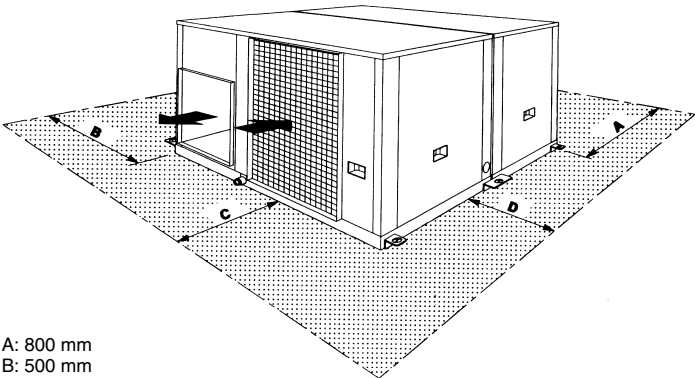
- Notes:**
- (X) For unit sizes 50TZ 060 and 40BZ 060 the standard indoor air outlet is through this panel. Use alternative x1.
 - (1) For unit sizes 50TZ 084 and 38FZ 084 there is no outdoor supply air alternative. The air can only enter via this panel.

Standard **(S)**



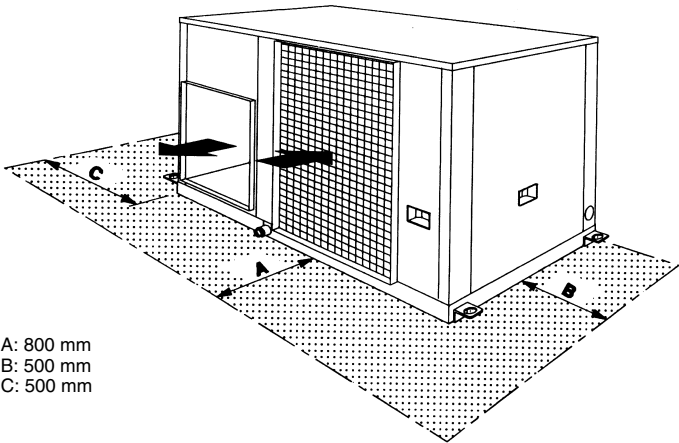
Clearances

50TZ (all sizes)



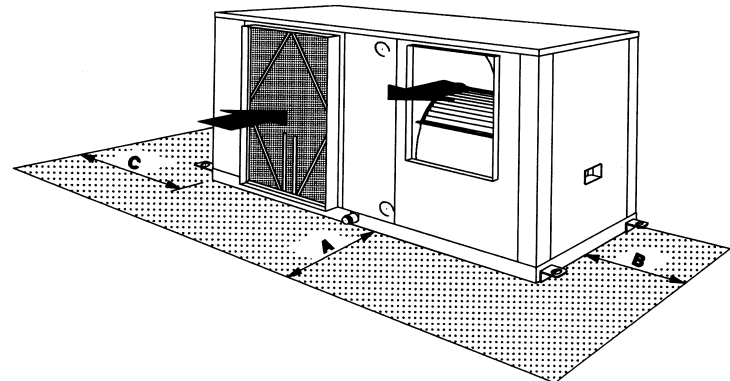
- A: 800 mm
- B: 500 mm
- C: 600 mm
- *D: 500 mm
- *NOTE: For size 50TZ 060: D = 600 mm

38FZ (all sizes)



- A: 800 mm
- B: 500 mm
- C: 500 mm

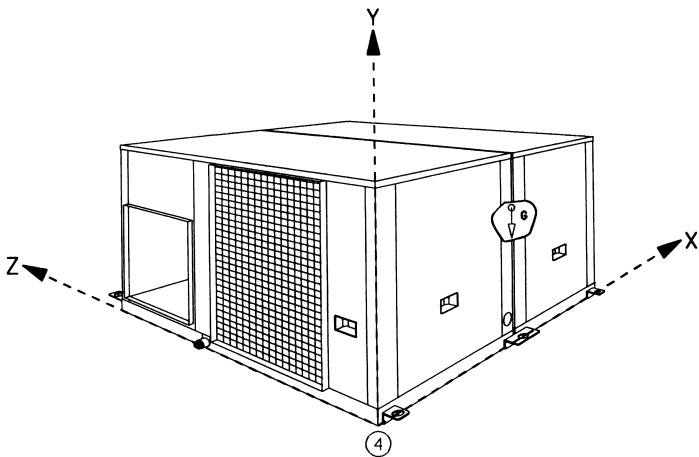
40TZ/BZ (all sizes)



- A: 600 mm
- *B: 500 mm
- C: 500 mm
- *NOTE: For size 40BZ 060: B = 600 mm

Centre of gravity (approx. mm)

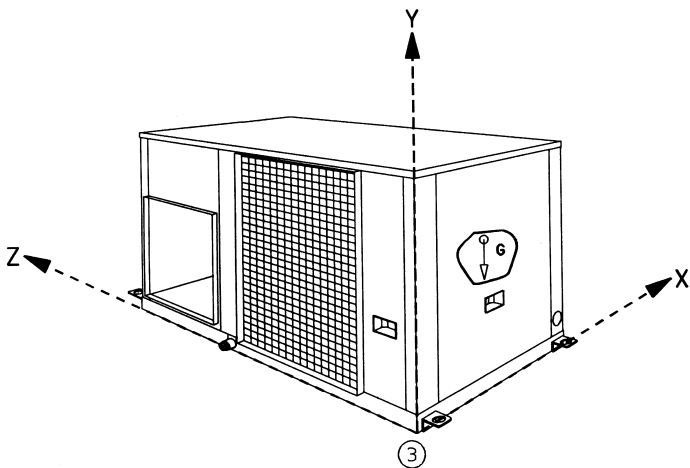
50TZ (all sizes)



	50TZ						
	024	036	042	048	060	072	084
XG*	443	461	522	559	595	695	710
YG*	200	213	210	217	223	290	290
ZG*	428	438	484	519	563	667	702

* Measured from point ④

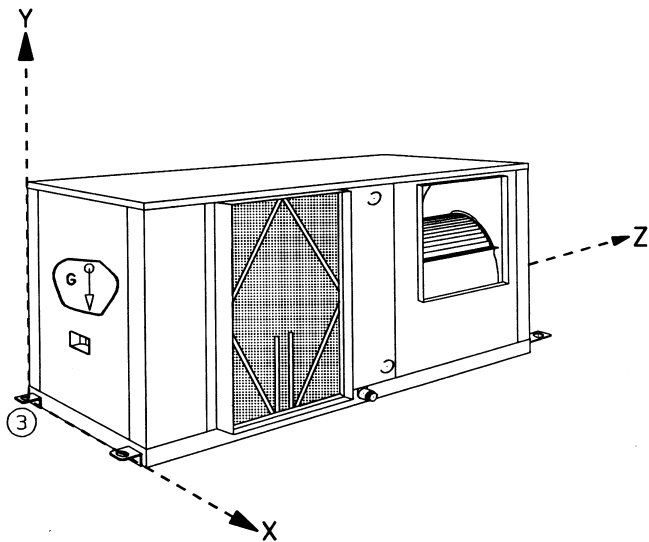
38FZ (all sizes)



	38FZ						
	024	036	042	048	060	072	084
XG*	302	310	322	348	372	460	490
YG*	199	211	210	212	218	283	283
ZG*	340	357	424	458	500	600	610

* Measured from point ③

40TZ/BZ (all sizes)

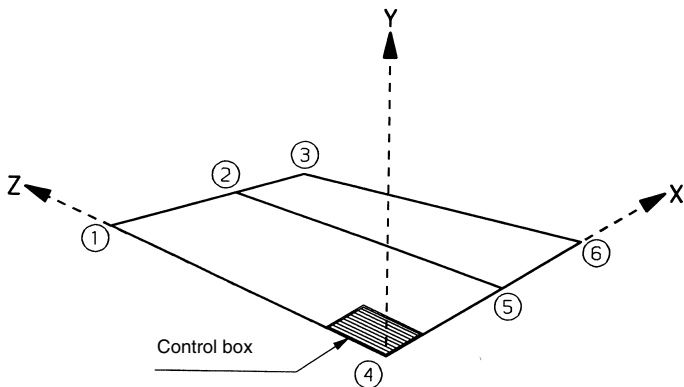


	40TZ/BZ						
	024	036	042	048	060	072	084
XG*	290	300	308	310	310	430	460
YG*	223	238	240	232	235	275	277
ZG*	495	586	633	682	725	758	786

* Measured from point ③

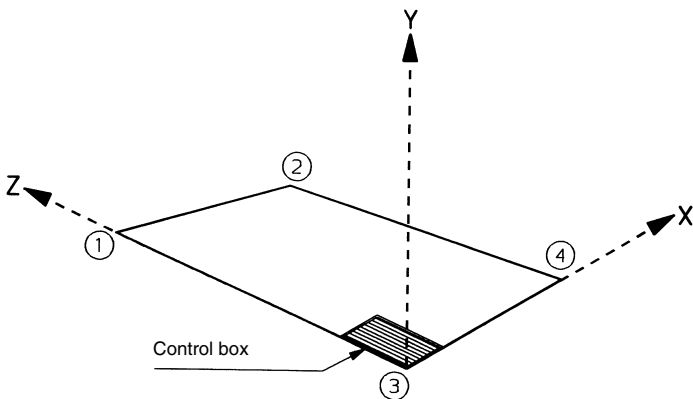
Weight distribution (kg, approx.)

50TZ (all sizes)



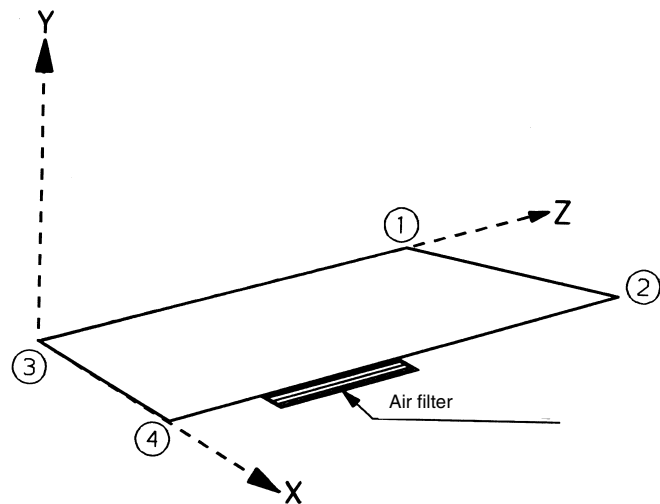
	50TZ						
Support points	024	036	042	048	060	072	084
①	19	21	25	28	33	41	49
②	27	31	36	39	45	57	65
③	17	20	20	24	28	39	46
④	42	48	52	60	65	75	86
⑤	50	59	61	69	73	84	96
⑥	13	14	17	21	22	33	40

38FZ (all sizes)



	38FZ						
Support points	024	036	042	048	060	072	084
①	18	22	27	32	36	43	54
②	15	16	20	23	27	37	48
③	43	50	52	65	69	77	91
④	34	40	41	45	48	55	68

40TZ/BZ (all sizes)



	40TZ/BZ						
Support points	024	036	042	048	060	072	084
①	11	12	14	15	18	25	25
②	17	18	19	21	25	32	34
③	18	20	21	22	25	25	25
④	12	13	17	18	19	34	36

Cooling capacities

50TZ 024 and 40BZ 024/38FZ 024 - Air flow 400 l/s

Ewb °C	Edb °C		Outdoor air dry bulb temperature °C				
			25	30	35	40	46
15		CAP	6.60	6.21	5.71	5.37	4.73
		kW	1.96	2.04	2.12	2.20	2.42
	19	SHC	3.25	2.86	2.46	2.22	1.97
	21	SHC	4.09	3.69	3.30	2.91	2.66
	23	SHC	5.02	4.63	4.24	3.84	3.64
	25	SHC	5.96	5.57	5.17	4.78	4.28
17		CAP	6.99	6.55	6.21	5.76	5.32
		kW	2.03	2.12	2.20	2.28	2.50
	21	SHC	3.55	3.15	2.76	2.51	2.17
	23	SHC	4.38	3.99	3.60	3.20	2.91
	25	SHC	5.32	4.93	4.53	4.14	3.84
	27	SHC	6.25	5.86	5.47	5.07	4.68
19		CAP	7.34	6.99	6.50	6.21	5.71
		kW	2.12	2.20	2.29	2.46	2.57
	23	SHC	3.84	3.45	3.05	2.81	2.36
	25	SHC	4.68	4.28	3.89	3.50	3.10
	27	SHC	5.61	5.22	4.83	4.43	4.04
	29	SHC	6.55	6.16	5.76	5.37	4.97
21		CAP	7.78	7.39	6.99	6.60	6.11
		kW	2.22	2.29	2.38	2.54	2.64
	25	SHC	4.14	3.74	3.35	3.10	2.66
	27	SHC	4.97	4.58	4.19	3.79	3.40
	29	SHC	5.91	5.52	5.12	4.73	4.33
	31	SHC	6.85	6.45	6.06	5.66	5.22

50TZ 042 and 40BZ 042/38FZ 042 - Air flow 670 l/s

Ewb °C	Edb °C		Outdoor air dry bulb temperature °C				
			25	30	35	40	46
15		CAP	9.83	9.64	9.02	8.16	7.30
		kW	3.12	3.21	3.31	3.45	3.60
	19	SHC	5.01	4.77	4.68	4.58	4.39
	21	SHC	7.73	7.35	7.06	6.97	6.78
	23	SHC	9.16	8.88	8.16	7.92	7.16
	25	SHC	9.78	9.59	8.97	8.11	7.54
17		CAP	10.36	10.21	10.02	9.21	8.26
		kW	3.26	3.36	3.45	3.60	3.74
	21	SHC	5.11	4.87	4.77	4.68	4.49
	23	SHC	7.83	7.45	7.16	7.06	6.97
	25	SHC	9.26	8.97	8.26	8.11	7.25
	27	SHC	10.31	10.17	9.45	8.59	7.64
19		CAP	10.83	10.69	10.50	10.02	9.21
		kW	3.36	3.49	3.56	3.74	3.89
	23	SHC	5.20	4.96	4.87	4.82	4.58
	25	SHC	7.92	7.54	7.25	7.16	7.06
	27	SHC	9.35	9.07	8.35	8.21	7.35
	29	SHC	10.69	10.40	9.55	8.69	7.78
21		CAP	11.26	11.02	10.79	10.45	9.74
		kW	3.45	3.60	3.64	3.89	4.14
	25	SHC	5.30	5.06	4.96	4.92	4.68
	27	SHC	8.02	7.64	7.35	7.25	7.16
	29	SHC	9.45	9.16	8.45	8.30	7.45
	31	SHC	10.79	10.50	9.64	8.78	7.87

50TZ 036 and 40BZ 036/38FZ 036 - Air flow 565 l/s

Ewb °C	Edb °C		Outdoor air dry bulb temperature °C				
			25	30	35	40	46
15		CAP	8.41	8.27	7.80	7.06	6.87
		kW	2.63	2.72	2.81	2.90	3.03
	19	SHC	4.74	4.60	4.51	4.41	4.04
	21	SHC	5.95	5.85	5.76	5.62	5.25
	23	SHC	7.06	6.97	6.87	6.69	6.50
	25	SHC	8.36	8.22	7.76	7.01	6.78
17		CAP	8.92	8.73	8.55	8.27	7.43
		kW	2.73	2.82	2.89	3.03	3.16
	21	SHC	4.83	4.69	4.60	4.51	4.13
	23	SHC	6.04	5.95	5.85	5.71	5.34
	25	SHC	7.15	7.06	6.97	6.87	6.64
	27	SHC	8.50	8.41	8.31	8.22	7.39
19		CAP	9.48	9.29	9.10	8.78	8.04
		kW	2.86	2.93	2.99	3.16	3.29
	23	SHC	4.92	4.78	4.69	4.60	4.23
	25	SHC	6.13	6.04	5.95	5.81	5.43
	27	SHC	7.25	7.15	7.06	6.97	6.74
	29	SHC	8.59	8.50	8.41	8.31	7.94
21		CAP	9.89	9.75	9.62	9.29	8.55
		kW	2.90	3.02	3.07	3.26	3.53
	25	SHC	5.02	4.88	4.78	4.69	4.32
	27	SHC	6.22	6.13	6.04	5.90	5.53
	29	SHC	7.34	7.25	7.15	7.06	6.83
	31	SHC	8.69	8.59	8.50	8.41	8.04

50TZ 048 and 40BZ 048/38FZ 048 - Air flow 670 l/s

Ewb °C	Edb °C		Outdoor air dry bulb temperature °C				
			25	30	35	40	46
15		CAP	11.32	10.93	10.20	9.32	8.24
		kW	3.35	3.48	3.72	3.92	4.34
	19	SHC	6.54	6.24	6.05	5.76	5.41
	21	SHC	8.10	7.76	7.51	7.17	6.83
	23	SHC	9.56	9.22	8.88	8.68	8.05
	25	SHC	11.12	10.68	10.00	9.27	8.20
17		CAP	12.00	11.71	11.12	10.24	9.12
		kW	3.56	3.67	3.86	4.05	4.48
	21	SHC	6.63	6.34	6.15	5.85	5.51
	23	SHC	8.20	7.85	7.61	7.27	6.93
	25	SHC	9.66	9.32	8.98	8.78	8.15
	27	SHC	11.22	10.78	10.10	9.80	8.63
19		CAP	12.98	12.63	12.00	11.27	10.15
		kW	3.65	3.76	3.95	4.19	4.57
	23	SHC	6.73	6.44	6.24	5.95	5.61
	25	SHC	8.29	7.95	7.71	7.37	7.02
	27	SHC	9.76	9.41	9.07	8.88	8.24
	29	SHC	11.32	10.88	10.20	9.90	8.73
21		CAP	13.76	13.51	12.98	12.15	11.12
		kW	3.80	3.91	4.11	4.35	4.93
	25	SHC	6.83	6.54	6.34	6.05	5.71
	27	SHC	8.39	8.05	7.80	7.46	7.12
	29	SHC	9.86	9.51	9.17	8.98	8.34
	31	SHC	11.41	10.98	10.29	10.00	8.83

Cooling capacities

50TZ 060 and 40BZ 060/38FZ 060 - Air flow 950 l/s

Ewb °C	Edb °C		Outdoor air dry bulb temperature °C				
			25	30	35	40	46
15		CAP	13.19	12.85	12.22	11.39	9.93
		kW	4.35	4.49	4.76	5.01	5.51
	19	SHC	8.18	7.98	7.84	7.45	7.01
	21	SHC	9.93	9.79	9.59	9.30	8.91
	23	SHC	11.78	11.59	11.49	11.00	9.59
	25	SHC	13.05	12.51	12.03	11.29	9.83
17		CAP	14.56	14.41	13.53	12.80	11.10
		kW	4.66	4.76	4.96	5.28	5.72
	21	SHC	8.28	8.08	7.94	7.55	7.11
	23	SHC	10.03	9.88	9.69	9.40	9.01
	25	SHC	11.88	11.68	11.59	11.10	9.69
	27	SHC	13.14	12.61	12.12	11.39	9.93
19		CAP	16.11	15.87	14.80	14.31	12.76
		kW	4.69	4.81	5.16	5.41	5.76
	23	SHC	8.37	8.18	8.03	7.64	7.21
	25	SHC	10.13	9.98	9.79	9.49	9.10
	27	SHC	11.98	11.78	11.68	11.20	9.79
	29	SHC	13.24	12.71	12.22	11.49	10.03
21		CAP	17.67	17.38	16.50	15.58	14.17
		kW	4.87	5.01	5.28	5.57	6.04
	25	SHC	8.47	8.28	8.13	7.74	7.30
	27	SHC	10.22	10.08	9.88	9.59	9.20
	29	SHC	12.07	11.88	11.78	11.29	9.88
	31	SHC	13.34	12.80	12.32	11.59	10.13

50TZ 084 and 40TZ 084/38FZ 084 - Air flow 1365 l/s

Ewb °C	Edb °C		Outdoor air dry bulb temperature °C				
			25	30	35	40	46
15		CAP	22.74	21.22	19.60	17.87	15.51
		kW	6.86	7.14	7.37	7.62	7.92
	19	SHC	15.72	14.46	13.20	11.89	10.64
	21	SHC	18.13	16.61	15.30	13.89	12.84
	23	SHC	20.02	18.76	17.50	16.19	14.93
	25	SHC	22.22	20.86	19.55	17.66	15.46
17		CAP	24.16	22.69	21.06	19.23	17.08
		kW	7.11	7.26	7.57	7.87	8.18
	21	SHC	15.93	14.67	13.41	12.10	10.85
	23	SHC	18.34	16.82	15.51	14.10	13.05
	25	SHC	20.23	18.97	17.71	16.40	15.14
	27	SHC	22.43	21.06	19.81	18.55	17.03
19		CAP	25.73	24.16	22.74	21.01	18.71
		kW	7.26	7.52	7.77	8.08	8.48
	23	SHC	16.14	14.88	13.62	12.31	11.06
	25	SHC	18.34	17.03	15.72	14.31	13.26
	27	SHC	20.44	19.18	17.92	16.61	15.35
	29	SHC	22.64	21.27	20.02	18.76	17.50
21		CAP	27.14	25.73	24.16	22.58	20.28
		kW	7.52	7.77	8.08	8.48	8.84
	25	SHC	16.35	15.09	13.83	12.52	11.27
	27	SHC	18.55	17.24	15.93	14.51	13.47
	29	SHC	20.65	19.39	18.13	16.82	15.56
	31	SHC	22.85	21.48	20.23	18.97	17.71

Leyenda:

Edb - Indoor unit entering air dry bulb temperature °C

Ewb - Indoor unit entering air wet bulb temperature °C

kW - Compressor power input kW

SHC - Sensible capacity kW

CAP - Total capacity kW

50TZ 072 and 40BZ 072/38FZ 072 - Air flow 1320 l/s

Ewb °C	Edb °C		Outdoor air dry bulb temperature °C				
			25	30	35	40	46
15		CAP	18.37	17.48	16.54	15.03	13.25
		kW	6.03	6.33	7.14	7.24	7.69
	19	SHC	12.11	11.59	11.06	10.59	9.97
	21	SHC	14.25	13.72	13.20	12.68	12.11
	23	SHC	16.44	15.97	15.45	14.72	12.63
	25	SHC	18.32	17.43	16.49	14.98	13.20
17		CAP	19.67	18.79	17.80	16.33	14.56
		kW	6.23	6.53	6.93	7.34	7.94
	21	SHC	12.21	11.69	11.17	10.70	10.07
	23	SHC	14.35	13.83	13.31	12.79	12.21
	25	SHC	16.54	16.07	15.55	15.03	14.30
	27	SHC	18.73	18.21	17.69	16.28	14.51
19		CAP	20.87	20.09	19.10	17.59	15.86
		kW	6.33	6.73	7.19	7.54	8.19
	23	SHC	12.32	11.79	11.27	10.80	10.18
	25	SHC	14.46	13.93	13.41	12.89	12.32
	27	SHC	16.65	16.18	15.66	15.13	14.51
	29	SHC	18.84	18.32	17.80	17.27	15.66
21		CAP	22.18	21.45	20.46	19.00	17.22
		kW	6.43	6.83	7.24	7.64	8.24
	25	SHC	12.42	11.90	11.38	10.91	10.28
	27	SHC	14.56	14.04	13.52	12.99	12.42
	29	SHC	16.75	16.28	15.76	15.24	14.61
	31	SHC	18.94	18.42	17.90	17.38	15.76

Correction factors

50TZ 40BZ/TZ+38FZ	Multiplier	Nominal air flow		
		80%	90%	110%
024	CAP	0.95	0.97	1.02
	SHC	0.89	0.95	1.05
	kW	0.99	1.02	1.02
036	CAP	0.95	0.97	1.02
	SHC	0.88	0.94	1.06
	kW	0.97	0.99	1.02
042	CAP	0.96	0.98	1.03
	SHC	0.89	0.95	1.08
	kW	0.98	0.98	1.02
048	CAP	0.94	0.98	1.03
	SHC	0.89	0.95	1.05
	kW	0.97	0.98	1.01
060	CAP	0.96	0.96	1.02
	SHC	0.86	0.91	1.04
	kW	0.97	0.98	1.01
072	CAP	0.94	0.97	1.02
	SHC	0.87	0.94	1.04
	kW	0.96	0.98	1.01
084	CAP	0.95	0.97	1.02
	SHC	0.87	0.94	1.05
	kW	0.97	0.98	1.02

CAP - Total capacity

SHC - Sensible capacity

kW - Compressor power input

Cooling capacities (condensing units 38FZ)

38FZ	SST °C	Condenser entering air temperature, °C									
		25		30		35		40		46	
		CAP	kW	CAP	kW	CAP	kW	CAP	kW	CAP	kW
024	0	5.02	1.41	4.54	1.42	3.97	1.45	3.49	1.48	2.82	1.52
	2	5.64	1.58	5.11	1.60	4.54	1.63	4.01	1.67	3.34	1.71
	4	6.26	1.74	5.68	1.78	5.11	1.82	4.54	1.86	3.87	1.90
	6	6.93	1.93	6.35	1.97	5.68	2.00	5.11	2.04	4.40	2.09
	8	7.60	2.15	6.97	2.19	6.31	2.22	5.68	2.26	4.97	2.30
	10	8.26	2.35	7.60	2.40	6.97	2.43	6.35	2.47	5.54	2.51
	12	8.69	2.51	8.07	2.55	7.45	2.58	6.83	2.64	6.02	2.67
036	0	7.27	2.48	6.39	2.58	5.71	2.68	5.17	2.78	4.68	2.92
	2	7.75	2.58	7.07	2.68	6.39	2.78	5.90	2.87	5.36	3.02
	4	8.24	2.68	7.75	2.78	7.07	2.87	6.63	2.97	6.05	3.12
	6	9.32	2.78	8.54	2.78	7.80	2.97	7.32	3.07	6.78	3.22
	8	10.14	2.87	9.41	2.97	8.63	3.02	8.05	3.17	7.32	3.31
	10	10.29	2.97	10.29	3.02	9.46	3.12	8.83	3.22	8.10	3.46
	12	12.29	3.07	11.22	3.12	10.05	3.22	9.66	3.36	9.17	3.51
042	0	7.15	2.87	6.56	3.09	6.07	3.19	5.63	3.26	5.19	3.36
	2	8.32	2.92	7.59	3.15	6.90	3.23	6.37	3.31	5.83	3.40
	4	9.50	2.97	8.62	3.21	7.74	3.27	7.10	3.36	6.46	3.45
	6	10.48	3.06	9.50	3.26	8.57	3.37	7.88	3.44	7.20	3.55
	8	11.56	3.15	10.43	3.31	9.40	3.47	8.72	3.55	7.98	3.69
	10	12.49	3.27	11.56	3.40	10.43	3.57	9.60	3.75	8.71	3.89
	12	13.61	3.32	12.54	3.50	11.46	3.69	10.58	3.90	9.60	4.03
048	0	9.12	3.26	8.52	3.22	7.77	3.36	7.26	3.46	6.50	3.61
	2	10.52	3.31	9.72	3.36	8.87	3.51	8.12	3.65	7.28	3.80
	4	11.92	3.36	10.92	3.51	9.97	3.65	8.97	3.85	8.07	4.00
	6	13.03	3.41	11.97	3.61	10.97	3.80	9.97	3.90	8.92	4.14
	8	14.98	3.46	13.23	3.70	11.47	3.95	11.02	4.14	9.92	4.34
	10	15.38	3.56	14.28	3.85	13.18	4.19	12.02	4.29	10.77	4.53
	12	16.78	3.65	15.53	3.95	14.33	4.29	13.13	4.48	11.87	4.73
060	0	11.23	4.24	10.47	4.50	10.15	4.65	9.01	4.70	8.21	4.65
	2	12.69	4.39	11.78	4.60	11.12	4.75	10.02	4.85	9.01	4.95
	4	14.15	4.55	13.09	4.70	12.08	4.85	11.02	5.00	9.82	5.25
	6	15.56	4.60	14.40	4.80	13.34	5.00	12.18	5.25	10.77	5.51
	8	16.86	4.75	15.71	4.95	14.55	5.20	13.34	5.46	12.13	5.76
	10	18.27	4.85	17.02	5.10	15.81	5.40	14.65	5.66	13.19	6.01
	12	19.63	4.95	18.42	5.30	17.22	5.61	15.96	5.91	14.45	6.21
072	0	14.74	6.01	14.04	6.12	13.29	6.32	12.07	6.73	10.57	7.20
	2	16.34	6.12	15.37	6.22	14.41	6.53	13.24	6.94	11.85	7.40
	4	17.94	6.22	16.71	6.32	15.54	6.73	14.41	7.15	13.13	7.61
	6	19.54	6.32	18.10	6.53	16.60	6.94	15.54	7.35	14.20	7.87
	8	21.30	6.53	19.70	6.73	18.15	7.15	16.92	7.56	15.43	8.07
	10	22.74	6.63	21.14	6.84	19.54	7.30	18.26	7.76	16.76	8.33
	12	24.02	6.73	22.48	6.94	20.93	7.45	19.65	7.97	18.10	8.58
084	0	17.30	6.28	16.46	6.59	15.55	6.79	14.33	7.31	12.53	7.77
	2	19.16	6.38	18.05	6.69	16.88	7.00	15.61	7.51	13.96	7.98
	4	21.02	6.48	19.64	6.79	18.21	7.20	16.88	7.72	15.39	8.18
	6	22.93	6.59	21.23	7.00	19.48	7.51	18.21	7.92	16.67	8.44
	8	24.95	6.79	23.14	7.20	21.02	7.72	19.85	8.13	18.10	8.70
	10	26.70	6.90	24.79	7.36	22.93	7.87	21.44	8.34	19.64	8.95
	12	28.24	7.00	26.38	7.51	24.52	8.03	23.04	8.59	21.23	9.26

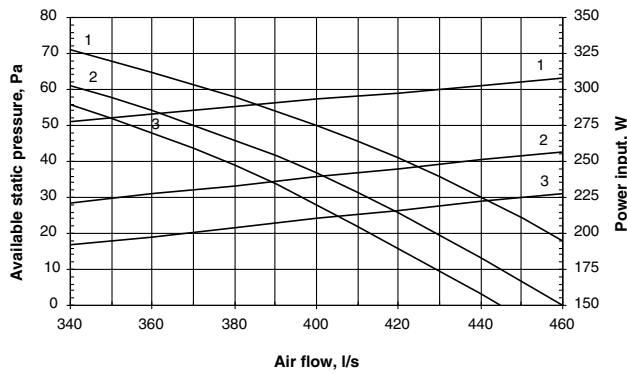
CAP - Total cooling capacity, kW

kW - Compressor power input

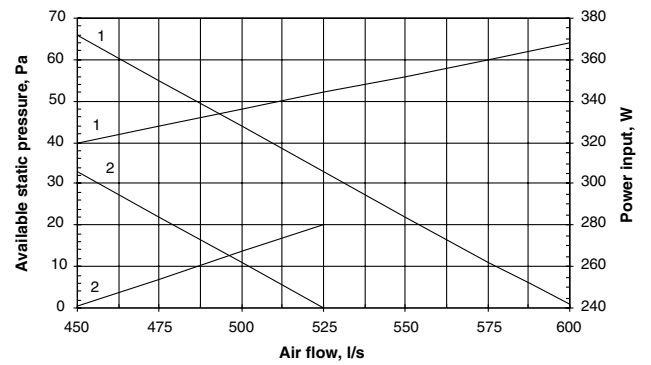
SDT - Compressor dew point suction temperature, °C

Fan curves

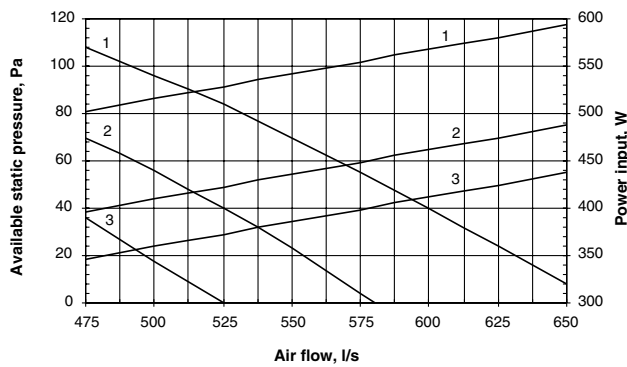
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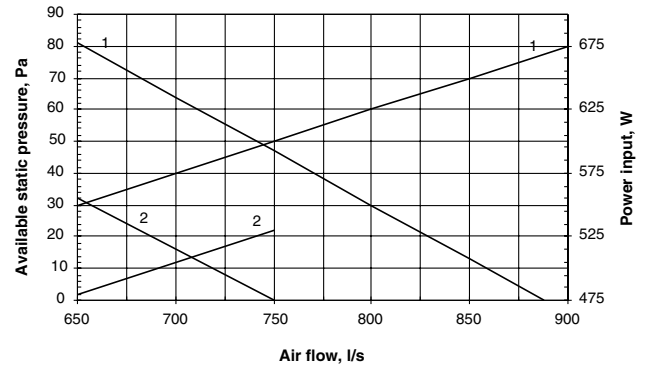
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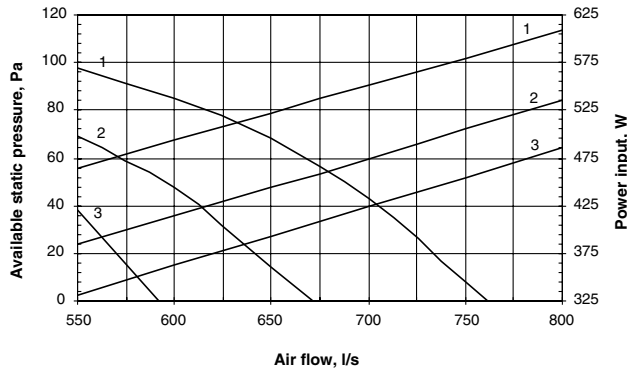
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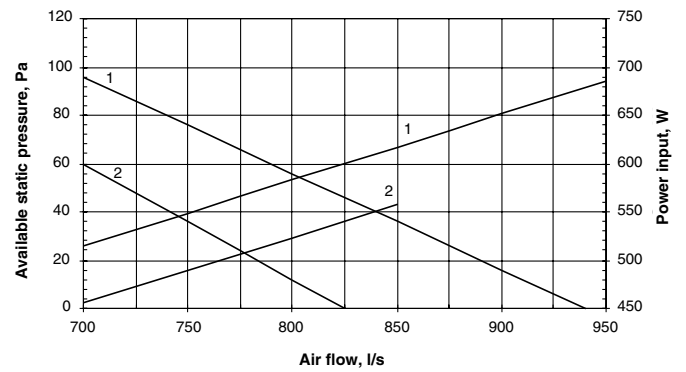
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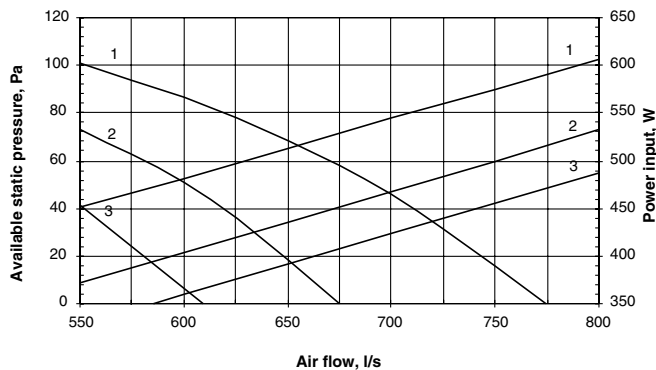
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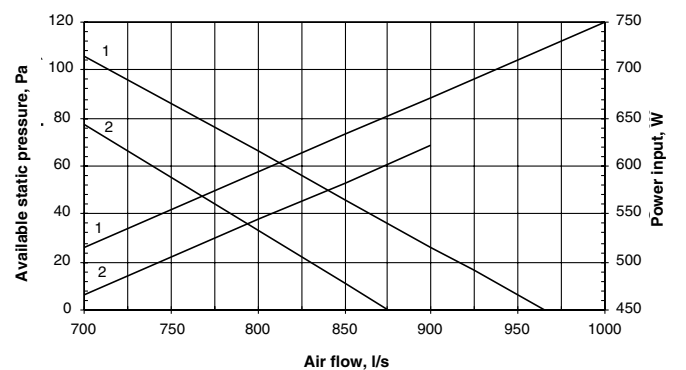
50TZ 042 outdoor fan (38FZ 042)



50TZ 048 indoor fan (40BZ 048)

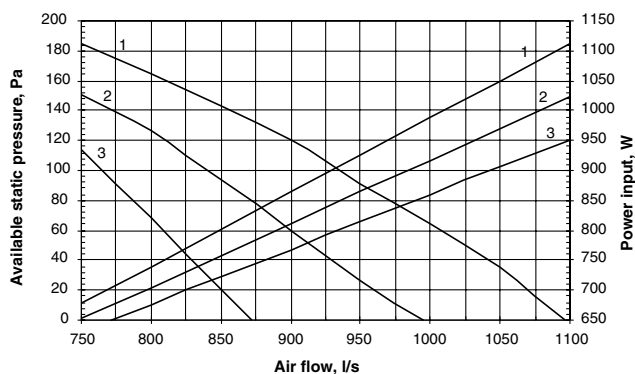


50TZ 048 outdoor fan (38FZ 048)

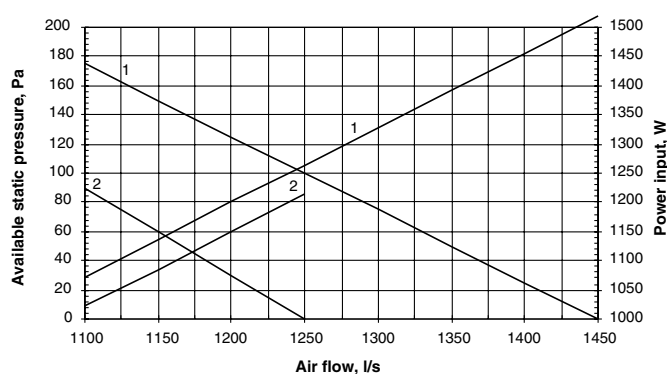


Fan curves

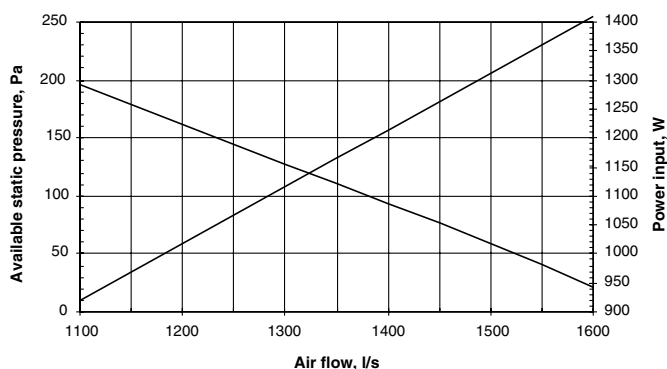
50TZ 060 indoor fan (40BZ 060)



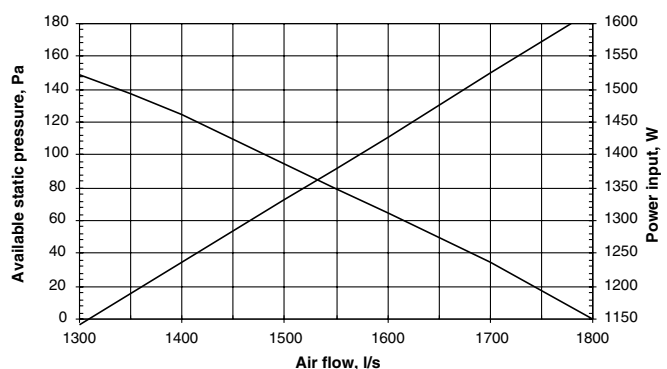
50TZ 060 outdoor fan (38FZ 060)



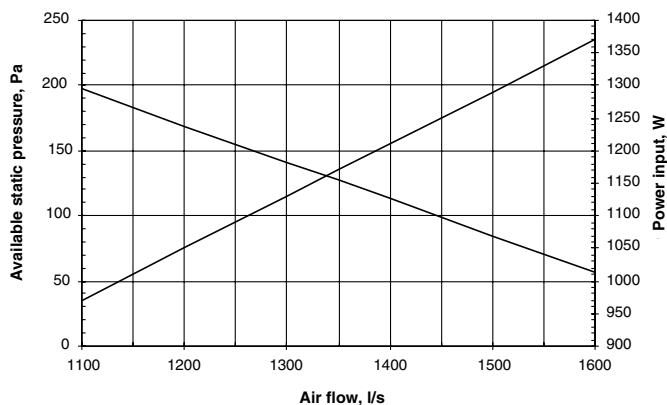
50TZ 072 indoor fan (40BZ 072)



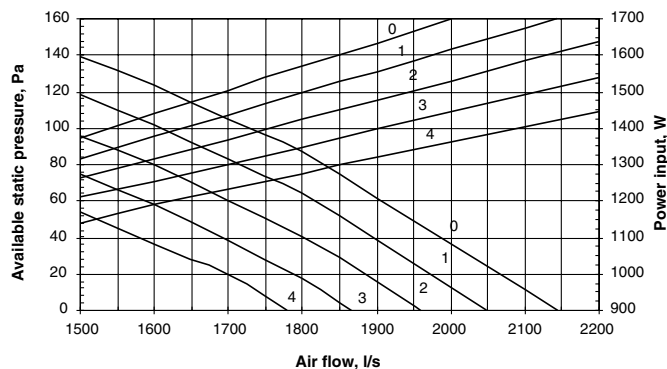
50TZ 072 outdoor fan (38FZ 072)



50TZ 084 indoor fan (40BZ 084)



50TZ 084 outdoor fan (38FZ 084)



Models 024 to 060	
Curve	Fan speed
1	High
2	Medium
3	Low

Model 50TZ 084 (38TZ 084)		
Curve	Pulley opening	r/s
0	Closed	15,33
1	1 turn	14,83
2	2 turns	14,33
3	3 turns	13,83
4	4 turns	13,33
Factory setting	1 turn	14,83



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Manufacturer reserves the right to change any product specifications without notice.

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