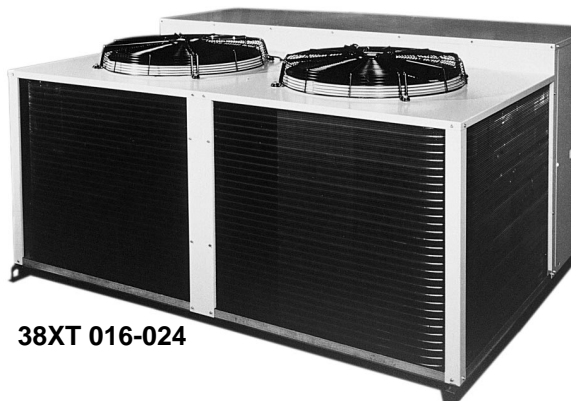




38XT 007-008



38XT 016-024



40AB



Carrier is participating in the Eurovent Certification Programme. Products are as listed in the Eurovent Directory of Certified Products.

## 40AB/38XT

**Nominal cooling capacity 20.0-74.7 kW**

The 40AB/38XT split-system cooling units are available in 7 sizes, with cooling capacities from 20.0 kW to 74.7 kW.

### Indoor unit features

- The cabinet is made of prepainted sheet metal.
- Double-inlet centrifugal fans with forward-curved blades, statically and dynamically balanced, and factory-set for nominal air flow. The fans are driven by three-phase motors with adjustable belt-pulley transmission.
- Washable air filters.

### Outdoor unit features

- The cabinet is made of prepainted sheet metal, specially suitable for use outdoors.
- Single-phase axial fans for quiet operation with generous service space. Motors have internal thermal protection.
- Refrigerant-to-air heat exchangers are manufactured from high quality copper tubing, mechanically expanded into pretreated aluminium fins and offer high corrosion resistance.
- Hermetic reciprocating compressors are mounted on shock absorbers for vibration-free operation, and include internal mufflers and thermal protection.

### Master Link

- The control system comprises the following elements:
  - Base module
  - Extension module
  - Temperature probe
  - Safety transformer
- A basic service tool and an advanced tool are available as accessories.
- Start-up, service and maintenance operations are effected on the unit itself via Master Link, but they can also be carried out using either of the following tools:

### Basic tool

The basic service tool is a very useful device for start-up, service and maintenance operations. It offers a real-time display of the status of the room thermostat signals, the unit itself, and each of the main refrigerant circuits and protection elements of the unit.

The basic tool has an option which accesses several sub-menus with maintenance and service operations: module and tabel selection, editing tables (parameters, totalizers, timers, temperatures, identification), data transmission (parameters, totalizers), alarm.

## Advanced tool

This tool provides an effective way of supervising air conditioning installations which include units equipped with the Master Link control. Its functions include: automatic recognition of the presence of units on the supervision network (SCAN function), display of the unit real-time status, editing of unit data tables (parameters, totalizers and identification), advanced unit testing functions, thermostat command evaluation, unit status and historic reports.

## Accessories

- Head pressure control kit
- Compressor crankcase heater
- Wired remote control with ambient thermostat
- Electric resistance heaters
- Basic tool for Master Link control system
- Advanced tool for Master Link control system

## Physical data

		007	008	011	014	016	020	024
<b>Indoor unit 40AB</b>		007	008	011	014	016	020	024
<b>Outdoor unit 38XT</b>		007	008	011	014	016	020	024
<b>Nominal cooling capacity*</b>	kW	20.0	23.1	29.1	36.6	46.5	57.8	74.7
<b>Refrigerant charge R-22**</b>	kg	5.46	7.06	9.10	8.00	7.1 x 2	7.6 x 2	8.3 x 2
<b>Outdoor unit 38XT</b>		007	008	011	014	016	020	024
<b>Operating weight</b>	kg	140	170	200	300	450	488	503
<b>Compressor</b>		Hermetic						
Quantity		1	1	1	1	2	2	2
Oil charge (each)	l	1.92	4.0	4.0	4.0	4.0	4.0	4.0
<b>Condenser coil</b>		Copper tubes, aluminium fins						
Face area	m <sup>2</sup>	1.80	1.80	1.86	1.45	2.97	2.97	2.97
No. of rows		2	3	3	3	2	3	3
<b>Condenser fan</b>		Axial						
Quantity		2	2	1	2	2	2	2
<b>Indoor unit 40AB</b>		007	008	011	014	016	020	024
<b>Operating weight</b>	kg	135	140	160	236	290	305	325
<b>Indoor coil</b>		Copper tubes, aluminium fins						
Face area	m <sup>2</sup>	0.69	0.69	0.70	1.03	1.14	1.14	1.14
Rows...fins/m		4...394	4...394	4...472	3...394	4...394	5...472	5...551
<b>Fan</b>		Two, double inlet, centrifugal						
Nominal air flow	l/s	1416	1583	1777	2694	2722	2972	3250
Air flow range	l/s	1150-1700	1300-1900	1400-2200	2150-3250	2175-3280	2375-3570	2600-3900
<b>Air filter</b>		Washable						
Quantity		1	1	2	2	3	3	3
Width x height	mm	612 x 600	612 x 600	612 x 600	740 x 700	632 x 615	632 x 615	632 x 780

\* Based on outdoor air temperature of 35°C db and an indoor air temperature of 27°C db, 19°C wb

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

## Electrical data

<b>40AB/38XT</b>		007		008		011		014		016		020		024	
<b>Nominal supply*</b>	<b>V</b>	<b>220</b>	<b>380-415</b>	<b>220</b>	<b>380-415</b>	<b>220</b>	<b>380-415</b>	<b>220</b>	<b>380-415</b>	<b>220</b>	<b>380-415</b>	<b>220</b>	<b>380-415</b>	<b>220</b>	<b>380-415</b>
<b>Nom. power input**</b>	kW	8.6	8.6	9.1	9.1	12.0	12.0	15.9	15.9	19.1	19.1	24.9	24.9	32.7	32.7
<b>Nom. current drawn**</b>	A	25.6	15.4	27.1	15.7	36.5	21.1	50.9	29.5	63.0	36.5	79.5	46.0	101.6	58.8
<b>Starting current</b>	A	165	89	157	99	228	146	270	171	263	167	348	219	408	257
<b>Max. power input***</b>	kW	9.9	9.9	10.1	10.1	13.7	13.7	18.3	18.3	22.4	22.4	28.1	28.1	42.9	42.9
<b>Max. current drawn***</b>	A	30.1	18.1	29.9	17.3	41.8	24.2	58.5	33.9	73.7	42.7	89.7	51.9	133.4	77.3

\* 3-phase power supply

\*\* Based on an outdoor air temperature of 35°C and an indoor air temperature of 19°C wb, 27°C db

\*\*\* Based on an outdoor air temperature of 46°C

### Note:

The power input of the optional electric heater (which can be installed in the unit) is not included. The control circuit power supply is 230-1-50.

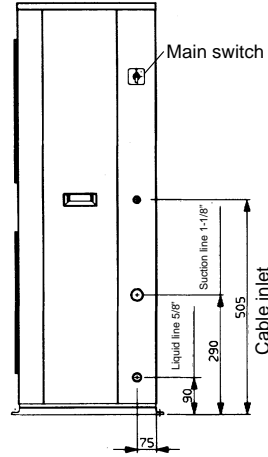
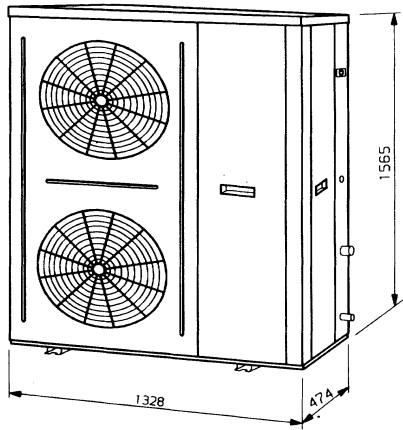
## Operating limits

<b>Zone</b>	<b>Air temperature °C</b>	
	<b>Dry bulb</b>	<b>Wet bulb</b>
<b>Indoor</b>		
Maximum	35	21
Minimum	19	14
<b>Outdoor</b>		
Maximum	46	-
Minimum	19*	-

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

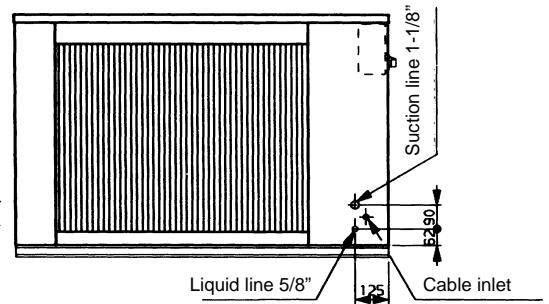
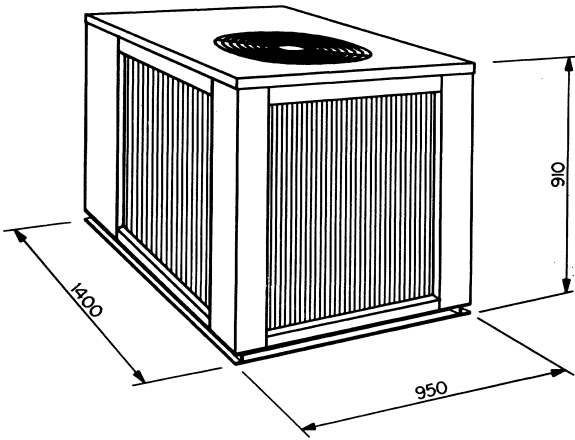
# Dimensions, mm

38XT 007, 008



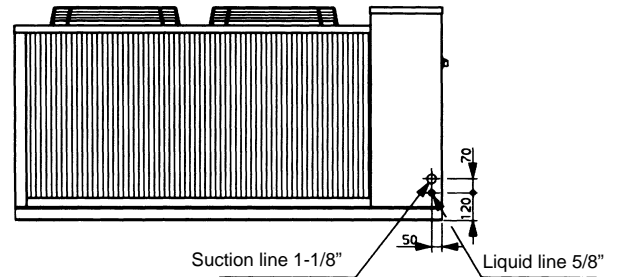
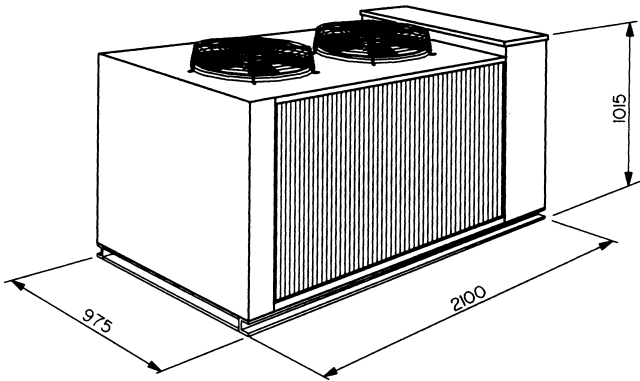
Right side view

38XT 011



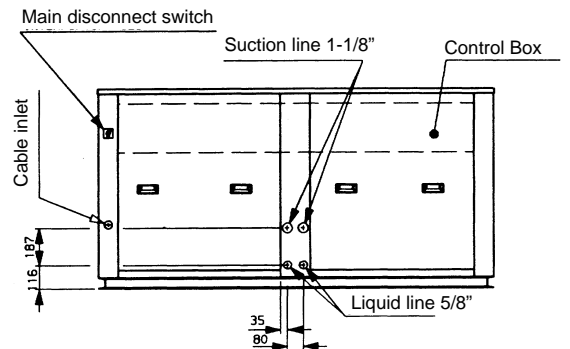
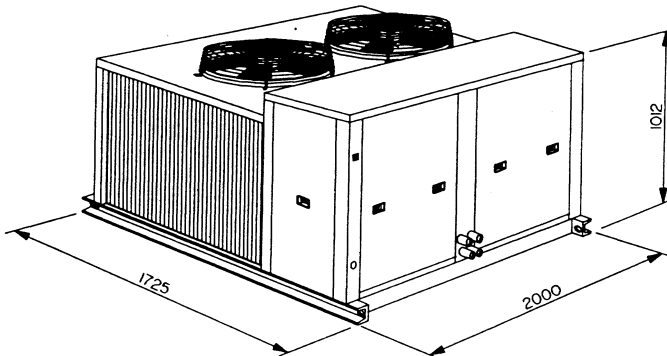
Rear view

38XT 014



Rear view

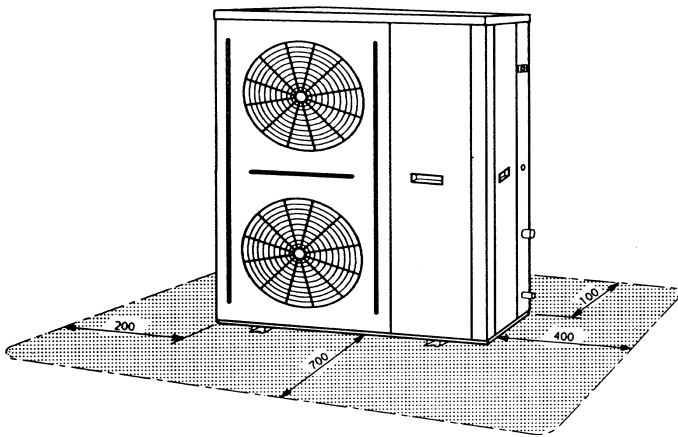
38XT 016-024



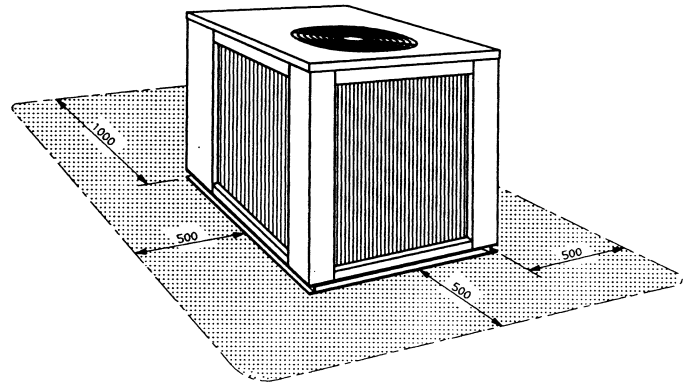
Rear view

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

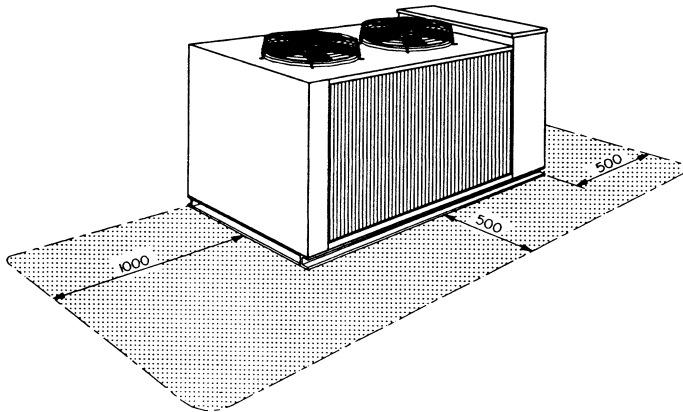
## Service area, mm



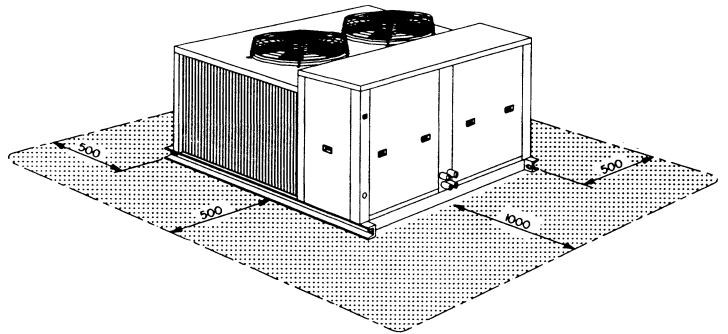
38XT 007, 008



38XT 011



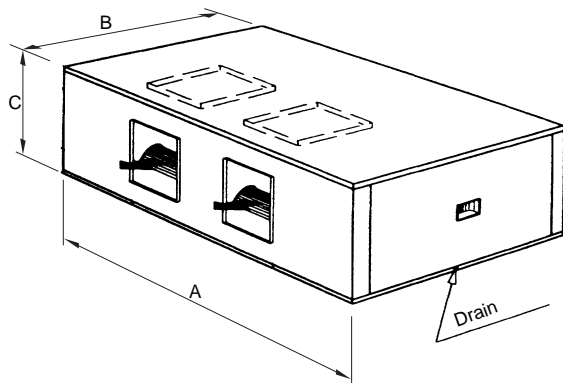
38XT 014



38XT 016, 020, 024

## Dimensions, mm

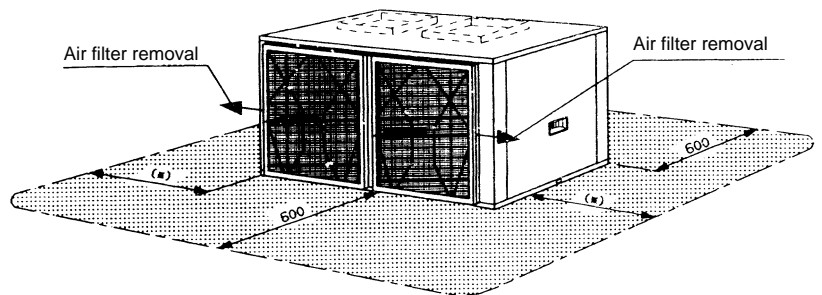
40AB



40AB	A	B	C
007-011	1348	807	662
014	1588	910	788
016-020	2125	1080	680
024	2625	1080	680

## Service area, mm

40AB (all sizes)



\* Required service space for the removal of the air filter and the fans (in case of a breakdown).

# Cooling capacities

## 38XT 007/40AB 007 - Air flow 1417 l/s

Ewb °C	Edb °C		Outdoor air temperature °C db				
			25	30	35	40	46
15		CAP	18.70	18.20	17.30	16.10	14.60
		kW	6.00	6.45	6.95	7.45	8.05
	19	SHC	13.30	12.85	12.35	11.90	10.60
	21	SHC	15.50	15.00	14.55	13.60	12.15
	23	SHC	17.00	16.70	16.10	14.90	13.50
	25	SHC	18.50	18.00	17.20	15.85	14.50
17		CAP	20.00	19.50	18.60	17.40	15.90
		kW	6.20	6.65	7.15	7.65	8.25
	21	SHC	13.50	13.00	12.55	12.10	10.80
	23	SHC	15.70	15.20	14.75	14.10	12.45
	25	SHC	17.85	17.20	16.70	15.50	14.00
	27	SHC	19.60	18.90	17.90	16.80	15.45
19		CAP	21.40	20.90	20.00	18.70	17.20
		kW	6.40	6.85	7.35	7.85	8.45
	23	SHC	13.70	13.20	12.75	12.30	11.00
	25	SHC	15.85	15.40	14.90	14.45	13.00
	27	SHC	18.05	17.60	17.10	16.40	14.95
	29	SHC	20.20	19.45	18.85	18.10	16.80
21		CAP	22.40	21.90	21.10	19.90	18.40
		kW	6.60	7.05	7.55	8.05	8.65
	25	SHC	13.90	13.40	12.95	12.45	11.35
	27	SHC	16.05	15.60	15.10	14.65	13.65
	29	SHC	18.25	17.75	17.30	16.80	15.80
	31	SHC	20.40	19.95	19.45	19.00	18.00

## 38XT 011/40AB 011 - Air flow 1777 l/s

Ewb °C	Edb °C		Outdoor air temperature °C db				
			25	30	35	40	46
15		CAP	29.00	27.10	25.30	23.30	21.00
		kW	8.83	9.21	9.74	10.25	11.05
	19	SHC	17.10	16.60	16.20	15.60	14.50
	21	SHC	20.30	19.90	19.50	18.90	18.20
	23	SHC	24.30	23.90	23.50	22.80	20.70
	25	SHC	27.50	27.00	25.20	23.20	20.90
17		CAP	30.70	28.90	27.10	25.30	23.10
		kW	9.02	9.40	9.85	10.45	11.40
	21	SHC	17.20	16.70	16.30	15.80	14.60
	23	SHC	20.40	20.00	19.60	19.10	18.30
	25	SHC	24.40	24.00	23.60	23.10	22.10
	27	SHC	27.70	27.30	26.90	25.20	23.00
19		CAP	32.90	31.00	29.10	27.40	25.10
		kW	9.47	9.80	10.25	10.80	11.50
	23	SHC	17.30	16.80	16.40	16.00	14.70
	25	SHC	20.60	20.20	19.80	19.50	18.40
	27	SHC	24.50	24.10	23.70	23.30	22.20
	29	SHC	27.90	27.50	27.10	26.10	25.00
21		CAP	35.10	33.25	31.70	29.40	27.30
		kW	9.82	10.10	10.60	11.00	12.00
	25	SHC	17.30	16.90	16.50	16.20	15.10
	27	SHC	20.80	20.50	20.15	20.00	18.90
	29	SHC	24.60	24.20	23.80	23.50	22.60
	31	SHC	28.20	27.80	27.40	27.10	26.20

### Legend:

**CAP** - Total capacity kW

**Edb** - Indoor air entering dry bulb temperature °C

**Ewb** - Indoor air entering wet bulb temperature °C

**kW** - Compressor power input

**SHC** - Sensible capacity kW

## 38XT 008/40AB 008 - Air flow 1583 l/s

Ewb °C	Edb °C		Outdoor air temperature °C db				
			25	30	35	40	46
15		CAP	23.20	21.50	19.90	18.15	16.15
		kW	6.75	6.95	7.35	7.60	8.10
	19	SHC	15.10	14.10	13.10	12.10	11.10
	21	SHC	17.60	16.60	15.60	14.60	13.60
	23	SHC	20.20	19.20	18.10	17.20	15.90
	25	SHC	22.40	21.40	19.80	18.10	16.10
17		CAP	24.90	23.20	21.50	19.90	17.75
		kW	7.05	7.30	7.60	7.80	8.55
	21	SHC	15.50	14.50	13.50	12.50	11.50
	23	SHC	18.00	17.00	16.00	15.00	14.00
	25	SHC	20.60	19.60	18.50	17.60	16.60
	27	SHC	22.80	21.80	20.80	19.80	17.70
19		CAP	26.50	24.85	23.10	21.45	19.35
		kW	7.30	7.55	7.80	8.25	8.80
	23	SHC	15.90	14.90	13.90	12.90	11.90
	25	SHC	18.40	17.40	16.40	15.40	14.40
	27	SHC	21.00	20.00	18.95	18.00	17.00
	29	SHC	23.20	22.20	21.20	20.20	19.20
21		CAP	28.35	26.65	24.90	23.20	21.05
		kW	7.65	7.90	8.20	8.65	9.25
	25	SHC	16.30	15.30	14.30	13.30	12.30
	27	SHC	18.80	17.80	16.80	15.80	14.80
	29	SHC	21.40	20.40	19.40	18.40	17.40
	31	SHC	23.60	22.60	21.60	20.60	19.60

## 38XT 014/40AB 014 - Air flow 2694 l/s

Ewb °C	Edb °C		Outdoor air temperature °C db				
			25	30	35	40	46
15		CAP	38.50	36.15	34.00	31.75	29.30
		kW	11.35	11.75	12.35	13.00	14.15
	19	SHC	22.65	21.35	20.00	18.75	17.45
	21	SHC	27.30	26.00	24.70	23.40	22.10
	23	SHC	32.20	30.90	29.60	28.30	27.00
	25	SHC	36.60	35.30	33.90	31.60	29.20
17		CAP	39.70	37.65	35.45	33.25	30.50
		kW	11.65	12.25	12.70	13.50	11.55
	21	SHC	22.75	21.45	20.15	18.85	17.55
	23	SHC	27.40	26.10	24.80	23.50	22.20
	25	SHC	32.30	31.00	29.70	28.40	27.10
	27	SHC	36.70	35.40	34.10	32.80	30.50
19		CAP	41.00	38.85	36.60	34.45	31.75
		kW	11.95	12.45	13.05	13.85	14.95
	23	SHC	22.85	21.55	20.25	18.95	17.65
	25	SHC	27.50	26.20	24.90	23.60	22.30
	27	SHC	32.40	31.10	29.80	28.50	27.20
	29	SHC	36.80	35.50	34.20	32.90	31.60
21		CAP	42.15	40.00	37.90	35.65	33.00
		kW	12.25	12.80	13.45	14.25	15.45
	25	SHC	22.95	21.65	20.35	19.05	17.75
	27	SHC	27.60	26.30	25.00	23.70	22.40
	29	SHC	32.50	31.20	29.90	28.60	27.30
	31	SHC	36.90	35.60	34.30	33.00	31.70

### 38XT 016/40AB 016 - Air flow 2722 l/s

Ewb °C	Edb °C		Outdoor air temperature °C db				
			25	30	35	40	46
15		CAP	44.95	42.40	37.80	37.20	34.15
		kW	13.30	14.00	14.85	15.80	17.50
	19	SHC	28.50	27.00	25.65	24.15	22.70
	21	SHC	33.95	32.50	31.00	29.55	28.10
	23	SHC	39.45	38.00	36.50	35.05	33.30
	25	SHC	44.35	42.30	39.65	37.10	34.05
17		CAP	48.35	45.80	43.05	40.40	37.35
		kW	13.75	14.45	15.25	16.45	18.05
	21	SHC	28.60	27.10	25.75	24.25	22.80
	23	SHC	34.05	32.60	31.10	29.65	28.20
	25	SHC	39.55	38.10	36.60	35.15	33.40
	27	SHC	44.45	42.40	39.75	37.20	34.15
19		CAP	51.90	49.25	46.50	44.05	40.85
		kW	14.35	15.05	15.85	16.95	18.45
	23	SHC	28.70	27.20	25.85	24.35	22.90
	25	SHC	34.15	32.70	31.20	29.75	28.30
	27	SHC	39.65	38.20	36.70	35.25	33.50
	29	SHC	44.55	42.50	39.85	37.30	34.25
21		CAP	56.10	53.65	50.90	48.35	45.30
		kW	14.85	15.55	16.45	17.45	19.05
	25	SHC	28.80	27.30	25.95	24.45	23.00
	27	SHC	34.25	32.80	31.30	29.85	28.40
	29	SHC	39.75	38.30	36.80	35.25	33.60
	31	SHC	44.65	42.60	39.95	37.40	34.35

### 38XT 020/40AB 020 - Air flow 2972 l/s

Ewb °C	Edb °C		Outdoor air temperature °C db				
			25	30	35	40	46
15		CAP	57.40	54.00	51.10	47.90	44.20
		kW	17.00	17.96	18.95	20.35	22.55
	19	SHC	31.30	30.45	28.45	26.45	23.95
	21	SHC	38.60	36.60	34.60	32.60	30.10
	23	SHC	44.70	42.70	40.70	38.70	36.20
	25	SHC	50.85	48.85	46.85	44.85	42.35
17		CAP	61.20	57.90	54.50	51.10	47.20
		kW	17.55	18.60	19.60	21.05	23.05
	21	SHC	32.45	31.60	29.60	27.60	25.10
	23	SHC	39.75	37.75	35.75	33.75	31.25
	25	SHC	45.85	43.85	41.85	39.85	37.35
	27	SHC	52.00	50.00	48.00	46.00	43.50
19		CAP	64.50	61.20	57.80	54.40	49.80
		kW	18.00	18.90	20.20	21.30	23.25
	23	SHC	34.75	32.75	30.75	28.75	26.05
	25	SHC	40.90	38.90	36.90	34.90	32.40
	27	SHC	47.00	45.00	43.00	41.00	38.50
	29	SHC	53.15	51.15	49.15	47.15	44.65
21		CAP	67.10	64.00	60.70	57.50	53.60
		kW	18.20	19.10	20.40	21.45	23.40
	25	SHC	35.90	33.90	31.90	29.90	27.40
	27	SHC	42.00	40.05	38.05	36.05	33.50
	29	SHC	48.15	46.15	44.15	42.15	39.65
	31	SHC	54.30	52.30	50.30	48.30	45.80

### 38XT 024/40AB 024 - Air flow 3250 l/s

Ewb °C	Edb °C		Outdoor air temperature °C db				
			25	30	35	40	46
15		CAP	73.10	68.60	64.70	60.50	55.40
		kW	23.85	24.67	25.95	27.55	29.56
	19	SHC	42.20	40.40	38.60	36.80	34.80
	21	SHC	50.00	48.20	46.40	44.60	42.60
	23	SHC	57.80	56.00	54.20	52.40	50.40
	25	SHC	65.60	63.80	62.00	60.20	58.20
17		CAP	78.10	73.70	69.80	65.70	60.70
		kW	24.75	25.80	26.85	28.35	30.55
	21	SHC	41.60	39.80	38.00	36.20	34.20
	23	SHC	49.40	47.60	45.80	44.00	42.00
	25	SHC	57.20	55.40	53.60	51.80	49.80
	27	SHC	65.00	63.20	61.40	59.60	57.60
19		CAP	82.50	78.60	74.70	70.30	65.40
		kW	25.30	26.30	27.75	29.15	31.60
	23	SHC	41.00	39.20	37.40	35.60	33.60
	25	SHC	48.80	47.00	45.20	43.40	41.40
	27	SHC	56.60	54.80	53.00	51.20	49.20
	29	SHC	64.40	62.60	60.80	59.00	57.00
21		CAP	84.70	81.80	78.85	74.70	69.80
		kW	25.70	26.70	28.10	29.50	38.00
	25	SHC	40.40	38.60	36.80	35.00	33.00
	27	SHC	48.20	46.30	44.60	42.80	40.80
	29	SHC	56.00	54.20	52.40	50.60	48.60
	31	SHC	63.80	62.00	60.20	58.40	56.90

**Legend:**

**CAP** - Total capacity kW  
**Edb** - Indoor air entering dry bulb temperature °C  
**Ewb** - Indoor air entering wet bulb temperature °C  
**kW** - Compressor power input  
**SHC** - Sensible capacity kW

## Correction factors

38XT/40AB	Multiplier	% Nominal air flow			
		80	90	110	120
007-024	CAP	0.96	0.98	1.02	1.04
	SHC	0.92	0.97	1.03	1.06
	kW	0.98	0.99	1.01	1.02

# Cooling capacities (Condensing units 38XT)

38XT	Evaporating temperature °C	Outdoor air temperature °C db									
		25		30		35		40		46	
		CAP	kW	CAP	kW	CAP	kW	CAP	kW	CAP	kW
007	0	16.70	5.20	14.55	5.55	12.05	6.00	9.95	6.40	7.30	6.70
	2	18.50	5.50	16.15	5.90	13.85	6.30	11.65	6.70	9.10	7.00
	4	20.25	5.75	17.90	6.25	15.56	6.65	13.35	7.00	10.75	7.30
	6	21.90	6.10	19.65	6.50	17.25	6.90	15.00	7.30	12.50	7.65
	8	23.60	6.40	21.25	6.80	18.00	7.20	16.75	7.65	14.40	7.95
	10	25.30	6.70	22.95	7.15	21.00	7.55	18.35	7.95	16.00	8.25
	12	26.95	7.00	24.60	7.45	22.45	7.85	20.10	8.25	17.90	8.60
008	0	22.30	5.75	19.40	6.15	16.10	6.65	13.25	7.10	9.70	7.40
	2	24.65	6.10	21.55	6.55	18.50	7.00	15.55	7.45	12.10	7.75
	4	27.00	6.40	23.85	6.90	20.75	7.35	17.80	7.75	14.35	8.10
	6	29.20	6.75	26.20	7.20	23.00	7.65	20.00	8.10	16.70	8.45
	8	31.45	7.10	28.35	7.55	25.24	8.00	22.35	8.45	19.20	8.80
	10	33.75	7.40	30.60	7.90	27.60	8.35	24.50	8.80	21.35	9.15
	12	35.95	7.75	32.80	8.25	29.95	8.70	26.80	9.15	23.85	9.55
011	0	27.90	7.50	24.25	8.00	20.15	8.65	16.55	9.20	12.15	9.60
	2	30.80	7.90	26.95	8.50	23.10	9.10	19.45	9.65	15.10	10.05
	4	33.75	8.35	29.80	8.95	25.95	9.55	22.25	10.10	17.95	10.50
	6	36.50	8.80	32.75	9.35	28.90	9.95	25.00	10.55	20.85	11.00
	8	39.30	9.25	35.45	9.80	31.55	10.40	27.95	11.00	24.00	11.45
	10	42.20	9.65	38.25	10.25	34.50	10.85	30.60	11.45	26.70	11.90
	12	44.90	10.10	41.00	10.70	37.45	11.30	33.50	11.90	29.80	12.40
014	0	39.75	10.25	36.60	10.65	33.15	11.10	29.80	11.70	26.90	12.35
	2	41.20	10.80	38.00	11.25	34.60	11.65	31.45	12.20	28.50	12.90
	4	42.80	11.30	39.50	11.75	36.35	12.20	33.15	12.70	30.00	13.45
	6	44.40	11.85	41.00	12.30	38.00	12.75	34.75	13.25	31.70	14.00
	8	46.10	12.35	42.70	12.90	39.80	13.35	36.35	13.80	32.20	14.55
	10	47.70	12.90	44.15	13.40	41.50	13.90	37.90	14.30	34.90	15.10
	12	49.30	13.40	45.60	13.95	42.80	14.45	39.50	14.85	36.60	15.60
016	0	43.30	11.70	40.65	12.30	37.20	13.00	32.00	13.95	26.25	14.70
	2	48.15	12.30	44.50	13.10	41.05	13.80	35.70	14.75	30.00	15.50
	4	51.20	12.90	48.40	13.85	45.00	14.65	39.70	15.60	33.95	16.40
	6	55.75	13.50	52.30	14.65	48.90	15.40	43.75	16.40	35.50	17.20
	8	59.40	14.10	56.15	15.45	52.55	16.20	47.40	17.30	41.80	18.05
	10	63.25	14.70	59.90	16.25	56.50	17.00	51.35	18.10	45.55	18.90
	12	67.00	15.45	63.80	17.10	60.15	17.85	55.15	18.95	49.65	19.70
020	0	58.75	16.10	55.80	16.80	52.60	17.60	47.95	18.40	42.70	19.90
	2	61.70	17.10	58.50	17.70	55.30	18.40	50.65	19.20	45.35	20.70
	4	64.30	17.80	61.20	18.50	58.00	19.20	53.35	20.00	48.20	21.50
	6	67.15	18.60	63.80	19.30	60.00	20.00	56.00	20.80	50.90	22.30
	8	69.80	19.40	66.35	20.10	63.00	20.80	59.00	21.60	53.80	23.20
	10	72.40	20.20	69.10	20.90	65.60	21.60	61.70	22.40	56.50	24.00
	12	75.20	21.00	71.80	21.70	68.35	22.40	64.50	23.20	59.35	24.80
024	0	73.00	20.65	67.00	22.00	61.50	23.50	53.50	24.45	43.50	25.45
	2	79.00	22.00	73.00	23.40	67.00	24.75	59.00	25.80	49.50	26.80
	4	84.50	23.35	79.00	24.75	73.00	26.10	65.00	27.15	55.50	28.20
	6	90.50	24.65	84.50	26.15	79.00	27.50	71.00	28.50	61.50	29.60
	8	96.25	25.90	90.50	27.55	84.50	28.85	77.00	29.95	67.50	31.00
	10	102.00	27.25	96.00	28.95	90.50	30.25	83.00	31.30	73.50	32.35
	12	108.00	28.55	102.00	30.30	96.50	31.70	88.50	32.60	79.00	33.60

Legend:  
**CAP** - Cooling capacity kW  
**kW** - Power input

# Fan performance

## 40AB 007

Position motor pulley		Air flow l/s						
		1150	1200	1300	1400	1500	1600	1700
Closed 18.33 r/s	Pa	250	245	235	225	211	196	180
	kW	1.05	1.10	1.17	1.25	1.35	1.45	1.55
1 turn open 17.66 r/s	Pa	221	216	209	198	188	172	153
	kW	0.95	1.03	1.10	1.16	1.25	1.35	1.42
2 turns open 16.91 r/s	Pa	195	190	182	172	160	145	130
	kW	0.88	0.94	1.00	1.09	1.15	1.25	1.32
3 turns open 16.21 r/s	Pa	170	165	160	150	138	122	108
	kW	0.82	0.88	0.95	1.02	1.10	1.15	1.22
4 turns open 15.41 r/s	Pa	158	150	140	129	115	100	81
	kW	0.80	0.84	0.88	0.94	1.00	1.06	1.15
4.5 turns open 15.00 r/s	Pa	140	135	125	112	100	85	70
	kW	0.72	0.76	0.81	0.86	0.92	1.01	1.10
Factory setting 15.41 r/s	Pa	158	150	140	129	115	100	81
	kW	0.80	0.84	0.88	0.94	1.00	1.06	1.15

## 40AB 011

Position motor pulley		Air flow l/s						
		1400	1500	1625	1750	1875	2000	2200
Closed 20.25 r/s	Pa	310	290	275	255	235	210	170
	kW	1.45	1.55	1.65	1.75	1.85	1.95	2.15
1 turn open 19.65 r/s	Pa	280	264	248	230	210	185	145
	kW	1.40	1.48	1.55	1.65	1.72	1.82	1.95
2 turns open 18.91 r/s	Pa	244	238	210	195	175	155	115
	kW	1.35	1.40	1.48	1.57	1.67	1.76	1.90
3 turns open 17.91 r/s	Pa	218	201	190	170	152	131	92
	kW	1.22	1.28	1.35	1.42	1.50	1.60	1.80
4 turns open 17.58 r/s	Pa	200	188	170	152	135	112	72
	kW	1.15	1.21	1.28	1.35	1.41	1.50	1.65
4.5 turns open 17.17 r/s	Pa	190	180	160	140	122	105	68
	kW	1.10	1.15	1.20	1.25	1.30	1.40	1.55
Factory setting 17.58 r/s	Pa	200	188	170	152	135	112	72
	kW	1.15	1.21	1.28	1.35	1.41	1.50	1.65

## 40AB 016

Position motor pulley		Air flow l/s						
		2175	2300	2500	2700	2900	3100	3280
Closed 17.33 r/s	Pa	300	295	275	250	225	195	165
	kW	2.30	2.42	2.62	2.85	3.05	3.30	3.55
1 turn open 16.83 r/s	Pa	275	270	250	225	200	170	145
	kW	2.20	2.30	2.52	2.70	2.95	3.20	3.40
2 turns open 16.25 r/s	Pa	250	245	230	205	170	150	125
	kW	2.10	2.22	2.40	2.60	2.80	3.05	3.25
3 turns open 15.66 r/s	Pa	225	220	205	175	150	125	95
	kW	2.00	2.10	2.30	2.50	2.70	2.90	3.10
4 turns open 15.08 r/s	Pa	205	197	170	150	125	100	75
	kW	1.90	2.00	2.15	2.30	2.50	2.75	3.00
4.5 turns open 14.75 r/s	Pa	190	180	160	135	115	85	60
	kW	1.85	1.90	2.10	2.25	2.40	2.66	2.90
Factory setting 16.50 r/s	Pa	262	257	240	215	185	160	115
	kW	2.05	2.26	2.46	2.65	2.85	3.11	3.32

## 40AB 024

Position motor pulley		Air flow l/s						
		2600	2800	3000	3200	3400	3600	3900
Closed 20.25 r/s	Pa	400	380	360	340	320	310	280
	kW	3.30	3.70	4.00	4.30	4.70	5.00	5.50
1 turn open 19.75 r/s	Pa	370	345	325	305	295	280	260
	kW	3.20	3.54	3.84	4.14	4.53	4.81	5.28
2 turns open 19.25 r/s	Pa	340	315	295	275	265	250	230
	kW	3.10	3.38	3.68	3.98	4.36	4.62	5.06
3 turns open 18.75 r/s	Pa	315	290	270	255	240	230	205
	kW	2.90	3.22	3.52	3.82	4.19	4.43	4.84
4 turns open 18.25 r/s	Pa	290	265	250	235	220	210	180
	kW	2.80	3.06	3.36	3.66	4.02	4.24	4.62
4.5 turns open 18.00 r/s	Pa	275	255	235	220	210	195	170
	kW	2.70	2.90	3.20	3.50	3.85	4.05	4.40
Factory setting 19.50 r/s	Pa	355	330	310	290	280	265	245
	kW	3.15	3.46	3.76	4.06	4.36	4.71	5.17

## 40AB 008

Position motor pulley		Air flow l/s						
		1300	1400	1500	1600	1700	1800	1900
Closed 18.00 r/s	Pa	222	218	210	200	190	175	160
	kW	1.22	1.29	1.36	1.46	1.55	1.65	1.75
1 turn open 17.33 r/s	Pa	209	200	192	181	170	155	140
	kW	1.14	1.21	1.27	1.36	1.44	1.53	1.61
2 turns open 16.66 r/s	Pa	190	184	178	169	157	141	130
	kW	1.05	1.10	1.16	1.23	1.30	1.38	1.47
3 turns open 16.00 r/s	Pa	170	161	151	140	125	108	90
	kW	0.95	1.02	1.08	1.15	1.23	1.31	1.39
4 turns open 15.33 r/s	Pa	148	138	125	112	97	80	62
	kW	0.85	0.93	0.99	1.06	1.13	1.23	1.30
4.5 turns open 15.00 r/s	Pa	138	129	119	105	89	70	49
	kW	0.80	0.87	0.94	1.02	1.10	1.17	1.26
Factory setting 15.66 r/s	Pa	159	149	138	126	107	94	76
	kW	0.90	0.97	1.03	1.11	1.18	1.27	1.35

## 40AB 014

Position motor pulley		Air flow l/s						
		2150	2250	2500	2750	2850	3000	3250
Closed 15.33 r/s	Pa	245	240	220	200	190	175	140
	kW	1.90	1.95	2.15	2.38	2.50	2.65	3.00
1 turn open 14.66 r/s	Pa	220	215	195	175	165	140	115
	kW	1.75	1.80	1.92	2.20	2.30	2.45	2.72
2 turns open 13.91 r/s	Pa	195	189	165	145	135	115	80
	kW	1.55	1.60	1.80	2.00	2.10	2.25	2.50
3 turns open 13.25 r/s	Pa	175	165	145	120	108	90	55
	kW	1.45	1.50	1.70	1.90	2.00	2.10	2.35
4 turns open 12.58 r/s	Pa	155	145	120	95	82	65	35
	kW	1.35	1.40	1.55	1.75	1.85	1.97	2.20
4.5 turns open 12.25 r/s	Pa	145	135	110	85	72	55	25
	kW	1.28	1.35	1.42	1.63	1.77	1.88	2.10
Factory setting 13.91 r/s	Pa	195	189	165	145	135	115	80
	kW	1.55	1.60	1.80	2.00	2.10	2.25	2.50

## 40AB 020

Position motor pulley		Air flow l/s						
		2375	2500	2700	2900	3100	3300	3570
Closed 20.90 r/s	Pa	385	375	360	345	330	310	280
	kW	3.50	3.70	3.90	4.10	4.40	4.70	5.10
1 turn open 20.33 r/s	Pa	350	340	330	310	290	275	250
	kW	3.30	3.48	3.70	3.95	4.20	4.50	4.90
2 turns open 19.75 r/s	Pa	320	310	295	285	265	245	220
	kW	3.15	3.30	3.50	3.80	4.05	4.30	4.75
3 turns open 19.16 r/s	Pa	290	280	265	250	230	215	195
	kW	3.00	3.15	3.40	3.60	3.85	4.10	4.55
4 turns open 18.58 r/s	Pa	260	250	235	220	205	190	165
	kW	2.90	3.00	3.25	3.45	3.70	3.90	4.30
4.5 turns open 18.33 r/s	Pa	245	235	220	205	190	170	150
	kW	2.80	2.90	3.10	3.30	3.60	3.80	4.15
Factory setting 18.83 r/s	Pa	275	265	250	235	217	203	180
	kW	2.95	3.06	3.32	3.52	3.77	4.00	4.41

Pa - External static pressure  
kW - Fan power input

