

**MOTOR-DRIVEN
CONDENSER UNITS
WATER CONDENSATION**

HFC-407C

SERIES:

UCWZ

MODELS: 201, 271, 351, 401, 501, 701, 721, 751,
1001, 1002, 1201, 1402, 1502, 2002, 2402

COOLING POWERS OF:

6,4 TO 81,0 KW



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General

The series UCWZ equipment consists of motor-driven condensers fitted with water-cooled condensers.

These units are designed to operate with any of our evaporator units, of equivalent capacity, and joined by the corresponding cooling connections.

The basic design and component layout facilitates simple adaptation to a wide range of practical needs. The machine may be simply located on a suitable base which prevents vibration. All this is combined with the versatility of the various systems, which provides mounting simplicity with numerous installation possibilities.

Exterior unit

Constructed in high-quality "aluzinc" steel sheet, which has been surface treated with a ternary alloy of aluminium, zinc and silica, finished with electrostatically-applied polyester powder and polymerised in an oven, which confers optimum corrosion resistance to outside weather conditions. The assembly is internally lined with thermo-acoustic insulation. The condensed water collection tray is treated with an asphalt type of material.

Cooling circuits

- One or two fully independent circuits.
- ACR copper refrigerant lines.
- Schrader valves for high and low pressure service connections.

Sealed compressor

One or two compressors are incorporated, with thermal and internal over-current protection of the windings, oil charge and internal shock-absorbing system. The compressor is mounted on the chassis by means of shock-absorbing supports and the oil pan heater to protect it from refrigerant liquid hammers during start-up.

Models 201, 271, 351, 401, 501, 1002, 1201 and 2402 include alternative sealed compressors, and the others incorporate SCROLL type compressors.

Condenser

The condensers are of the "tube-in-tube" type (coaxial), which are water-cooled. The interior piping is copper for water circulation and the exterior piping is steel. The space between the piping for refrigerant circulation and condensation is fitted with fins along its entire length in order to optimise heat exchange power. One or two condensers.

Operation and control equipment

The operational equipment for the motor-driven condenser unit/evaporator unit assembly form part of the motor-driven condenser. This includes compressor drive contactor and the fan motor contactor for the associated evaporator unit.

Three-phase fan motor thermal protection. High and low pressure protection pressurestat. The control system consists of an environment selector thermostat for control of equipment operation, with Stop, Ventilation (Fan), Cool or Heat positions. Control operation is at 230V up to Model 401 and 24V for the larger models. These later models include a printed circuit mounted 24V transformer and relay system for contactor operation.

Optional accessories

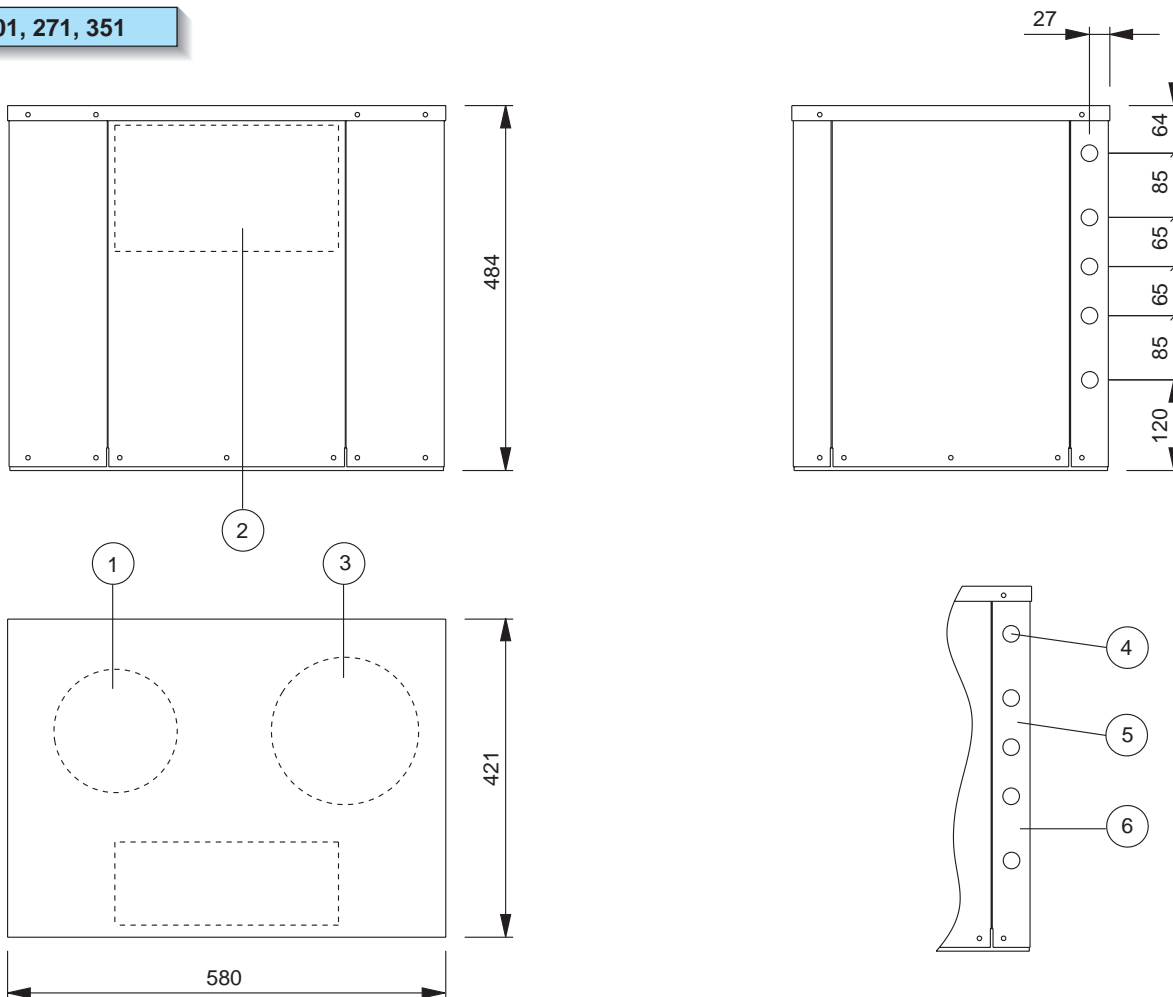
- Water regulation pressurestat valve.
- Quick-fit connections with 407C base charge.

OPERATIONAL LIMITS

TEMPERATURE	MINIMUM	MAXIMUM
Evaporation	0°C	12°C
Condensation	35°C	50°C
Water entry	15°C	35°C

CONSTRUCTION. DIMENSIONS

MOD. 201, 271, 351



CONSTRUCTIONAL DETAILS

1. Compressor
2. Electrical board
3. Condenser
4. Electrical power input
5. Cooling connections
6. Water connections

APPROXIMATE WEIGHT (kg)

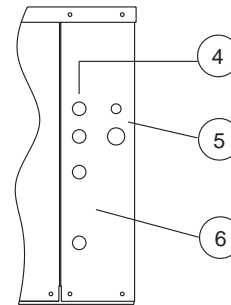
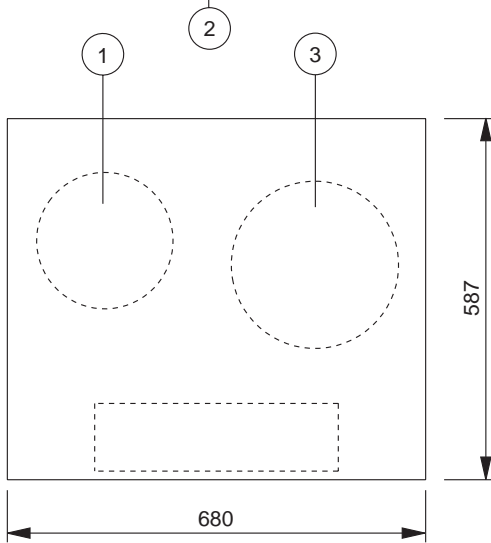
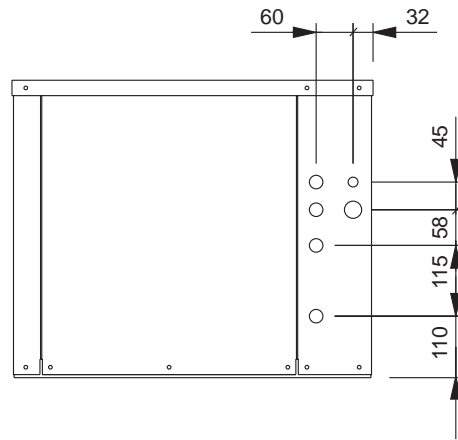
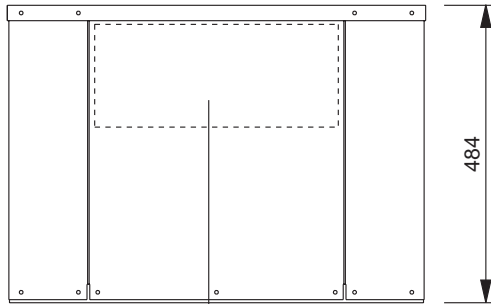
MODEL	201	271	351
Net weight	56	61	83
Packaged weight	65	69	93

COOLING CONNECTIONS

MODEL	201	271	351
Liquid line	3/8"	3/8"	3/8"
Gas line	1/2"	5/8"	5/8"

Water connection (male)	1/2"	1/2"	1/2"
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MOD. 401, 501



CONSTRUCTIONAL DETAILS

1. Compressor
2. Electrical board
3. Condenser
4. Cooling connections
5. Electrical power input
6. Water connections

APPROXIMATE WEIGHT (kg)

MODEL	401	501
Net weight	94	103
Packaged weight	104	118

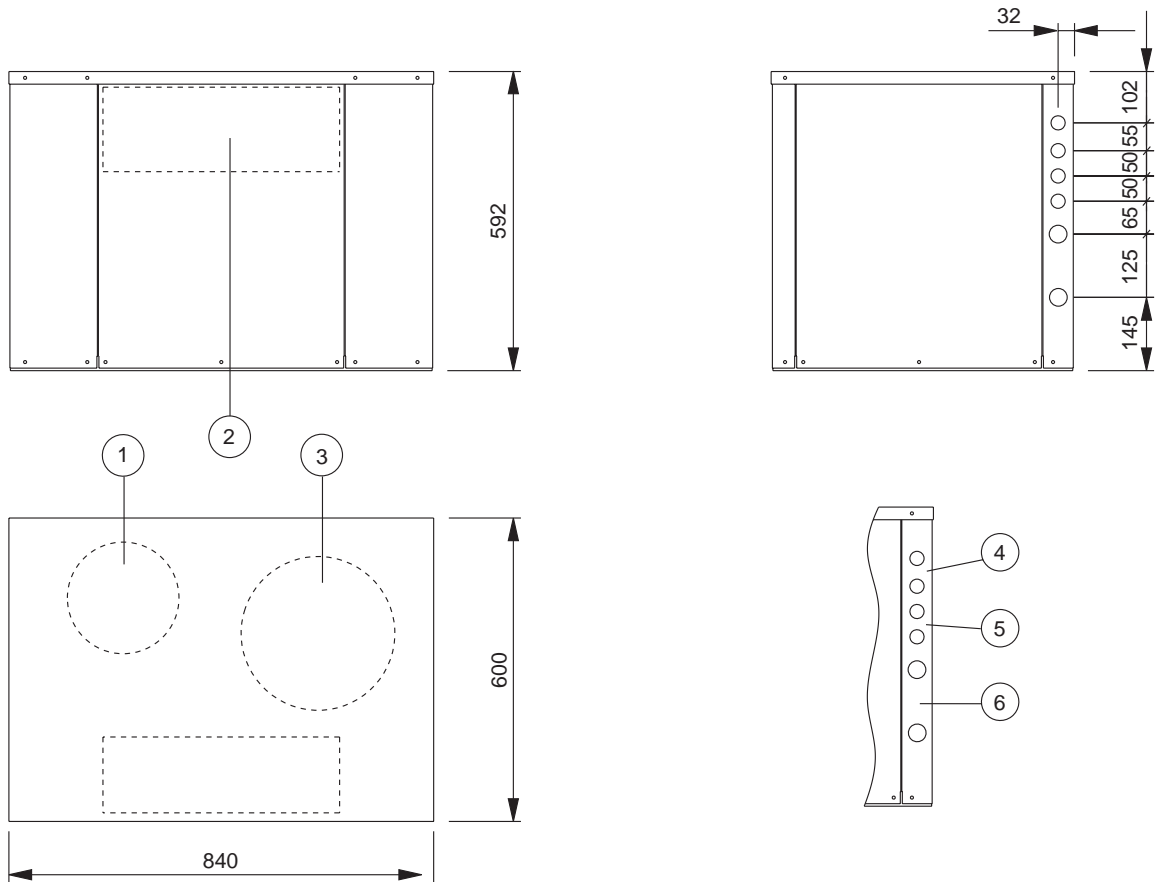
COOLING CONNECTIONS

MODEL	401	501
Liquid line	1/2"	1/2"
Gas line	3/4"	7/8"

Water connection (male)	3/4"	3/4"
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CONSTRUCTION. DIMENSIONS

MOD. 701, 721, 751



CONSTRUCTIONAL DETAILS

1. Compressor
2. Electrical board
3. Condenser
4. Cooling connections
5. Electrical power input
6. Water connections

APPROXIMATE WEIGHT(kg)

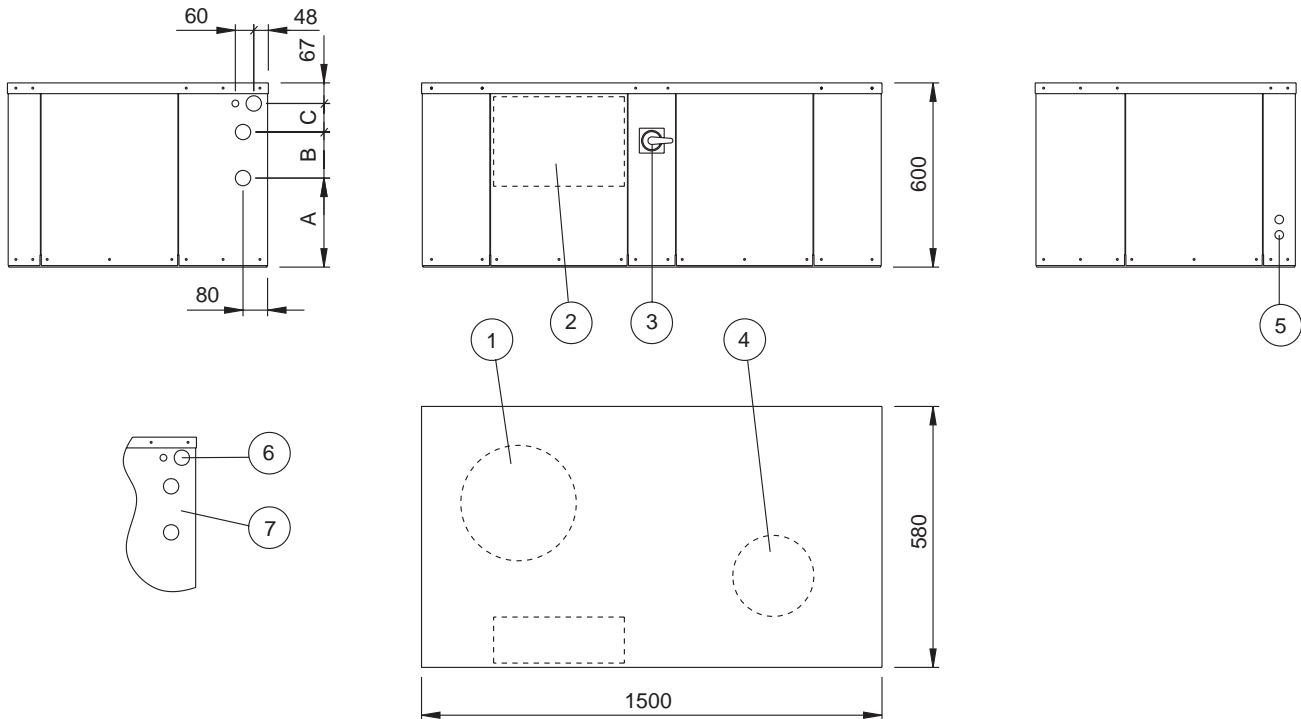
MODEL	701	721	751
Net weight	108	116	126
Packaged weight	128	135	146

COOLING CONNECTIONS

MODEL	701	721	751
Liquid line	1/2"	1/2"	5/8"
Gas line	7/8"	7/8"	1 - 1/8"

Water connection (male)	1"	1"	1"
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MOD. 1001, 1201



CONSTRUCTIONAL DETAILS

1. Condenser
2. Electrical board
3. Main switch
4. Compressor
5. Electrical power input
6. Cooling connections
7. Water connections

APPROXIMATE WEIGHT (kg)

MODEL	1001	1201
Net weight	153	177
Packaged weight	173	197

COOLING CONNECTIONS

MODEL	1001	1201
Liquid line	5/8"	5/8"
Gas line	1 - 1/8"	1 - 1/8"

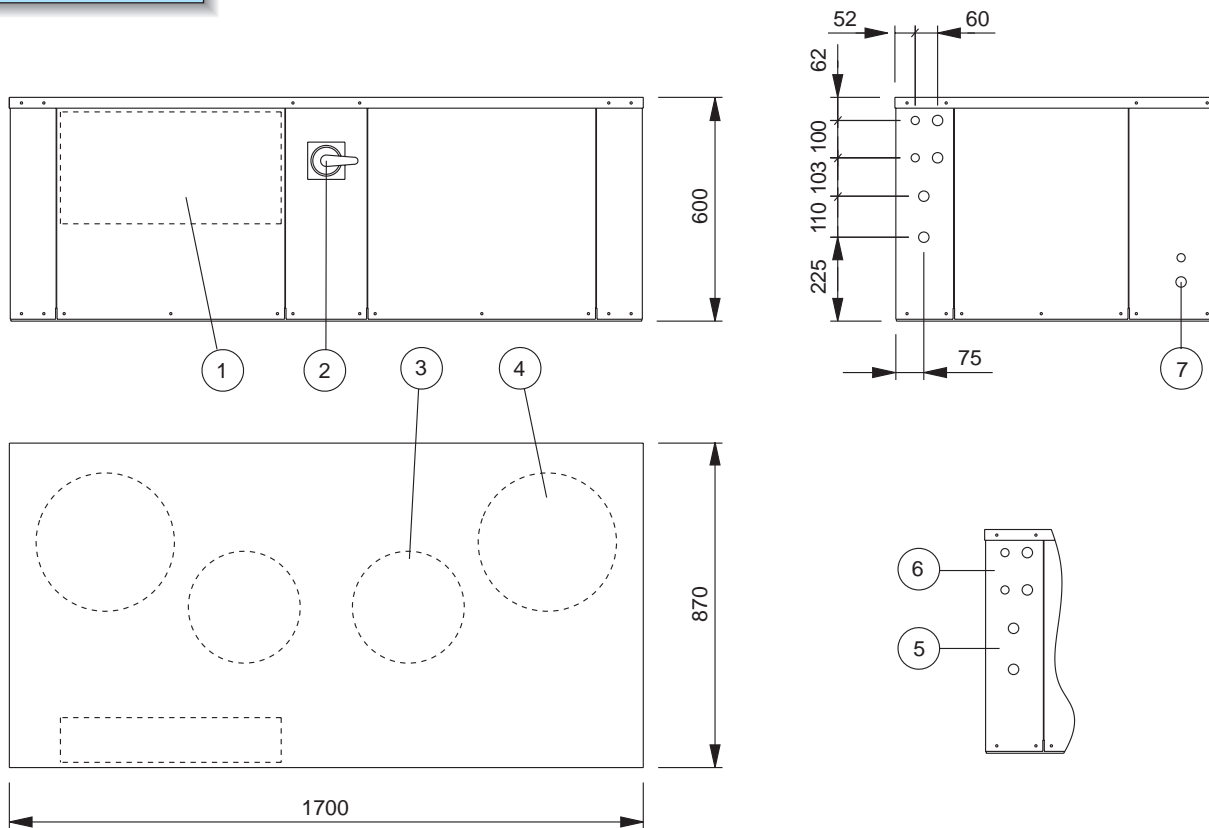
Water connection (male)	2"	2"
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DIMENSIONS (mm)

MODEL	A	B	C
1001	290	150	93
1201	250	150	133

CONSTRUCTION. DIMENSIONS

MOD. 1002, 1402, 1502



CONSTRUCTIONAL DETAILS

1. Electrical board
2. Mains switch
3. Compressors
4. Condensers
5. Water connections
6. Cooling connections
7. Electrical power input

APPROXIMATE WEIGHT (kg)

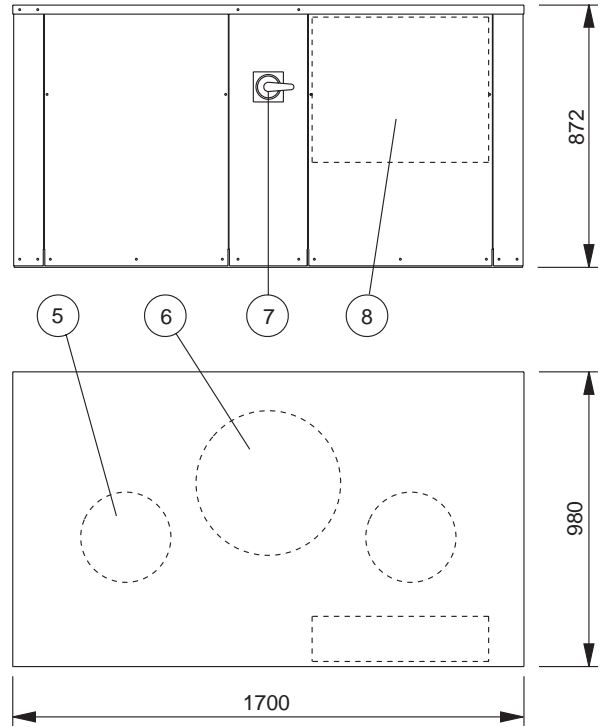
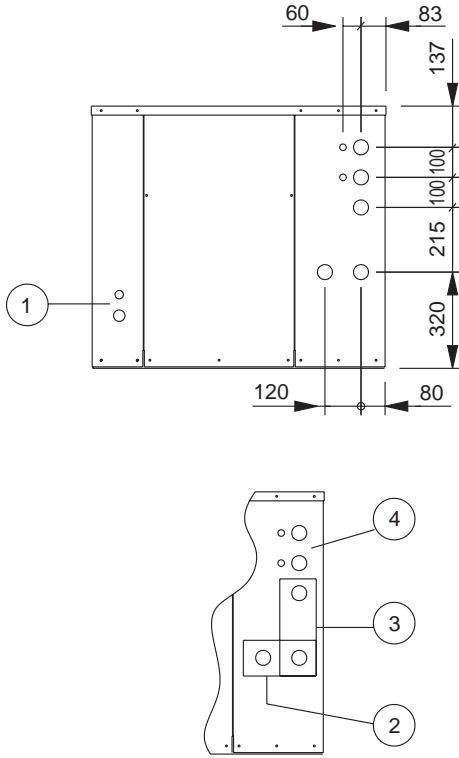
MODEL	1002	1402	1502
Net weight	212	252	274
Packaged weight	232	272	294

COOLING CONNECTIONS

MODEL	1002	1402	1502
Liquid line	1/2"	1/2"	5/8"
Gas line	7/8"	7/8"	1 - 1/8"

Water connection (male)	1/2"	1/2"	1/2"
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MOD. 2002, 2402



CONSTRUCTIONAL DETAILS

1. Electrical power input
2. Water connections model 2402
3. Water connections model 2002
4. Cooling connections
5. Compressors
6. Condensers
7. Mains switch
8. Electrical board

APPROXIMATE WEIGHT (kg)

MODEL	2002	2402
Net weight	258	282
Packaged weight	278	302

COOLING CONNECTIONS

MODEL	2002	2402
Liquid line	5/8"	5/8"
Gas line	1 - 1/8"	1 - 1/8"

Water connection (male)	2"	2"
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TECHNICAL SPECIFICATIONS

MODEL	201	271	351	401	501
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Rated power	kW	6,4	9,0	11,3	13,4	16,6
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COMPRESSOR

Type	Alternative										
Quantity		1	1	1	1	1	1	1	1	1	
Voltage (50 Hz ac)	V	230.I	230.I	400.III	230.I	230.III	400.III	230.III	400.III	230.III	400.III
Absorbed power	kW	1,62	2,63		3,33			4,24		4,10	
Absorbed current	A	8,30	13,5	4,50	17,0	9,80	5,7	12,5	7,20	12,1	7,00
Start-up current	A	42	61	31	90	78	39	106	53	107	62
Maximum absorbed current	A	12,0	16,2	5,10	17,2	11,3	5,90	14,8	6,70	17,2	9,90

CONDENSER

Type	"Tube-in-tube", coaxial, water-cooled										
Water connections	(")	1/2"	1/2"	1/2"	3/4"	3/4"					

REFRIGERANT

407C refrigerant charge	kg	0,9	1,1	1,6	1,6	2,1
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GENERAL SPECIFICATIONS FOR THE ELECTRICAL INSTALLATION

Voltage (50 Hz ac)	V	230.I	230.I	400.III	230.I	230.III	400.III	230.III	400.III	230.III	400.III
Absorbed power	kW	1,62	2,63		3,33			4,24		4,10	
Absorbed current	A	8,30	13,5	4,50	17,0	9,80	5,7	12,5	7,20	12,1	7,00
Maximum absorbed current	A	12,0	16,2	5,10	17,2	11,3	5,90	14,8	6,70	17,2	9,90

SOUND PRESSURE (at 2 metres)

Unit	dB (A)	59	60	60	61	67
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Notes:

UCWZ units are sent charged with nitrogen. When a unit is ordered with the quick-fit valve option, the base refrigerant charge is 407C. The indicated charge values are approximate and only for UCWZ without evaporator or refrigerant lines.

TECHNICAL SPECIFICATIONS

MODEL		701	721	751	1001	1201
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Rated power	kW	20,6	23,0	25,1	35,4	40,5
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COMPRESSOR

Type			SCROLL						Alternative	
Quantity		1	1	1	1	1	1	1	1	
Voltage (50 Hz ac)	V	400.III	230.III	400.III	230.III	400.III	230.III	400.III	230.III	400.III
Absorbed power	kW	5,60	5,86		7,20		9,82		13,28	10,77
Absorbed current	A	7,4	17,3	10,9	21,4	12,2	29,0	16,7	39,3	21,6
Start-up current	A	70	175	101	190	82	127	224	208	126
Maximum absorbed current	A	13,8	25,2	16,0	29,8	15,0	35,8	19,2	51,0	34,5

CONDENSER

Type	"Tube-in-tube", coaxial, water-cooled									
Water connections	(")	1"	1"	1"	2"	2"				

REFRIGERANT

407C refrigerant charge	kg	2,5	2,5	2,5	3,8	4,5
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GENERAL SPECIFICATIONS FOR THE ELECTRICAL INSTALLATION

Voltage (50 Hz ac)	V	230.I	230.I	400.III	230.III	400.III	230.III	400.III	230.III	400.III
Absorbed power	kW	5,60	5,86		7,20		9,82		13,28	10,77
Absorbed current	A	7,4	17,3	10,9	21,4	12,2	29,0	16,7	39,3	21,6
Maximum absorbed current	A	13,8	25,2	16,0	29,8	15,0	35,8	19,2	51,0	34,5

SOUND PRESSURE (at 2 metres)

Unit	dB (A)	67	65	65	66	67
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Notes:
UCWZ units are sent charged with nitrogen. When a unit is ordered with the quick-fit valve option, the base refrigerant charge is 407C. The indicated charge values are approximate and only for UCWZ without evaporator or refrigerant lines.

TECHNICAL SPECIFICATIONS

MODEL	1002	1402	1502	2002	2402
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Rated power	kW	35,6	41,2	50,2	70,8	81,0
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COMPRESSOR

Type		Alternative		SCROLL						Alternative	
Quantity		2		2		2		2		2	
Voltage (50 Hz ac)	V	230.III	400.III	230.III	400.III	230.III	400.III	230.III	400.III	230.III	400.III
Absorbed power	kW	4,95		5,73	5,60	7,20		9,82		13,28	10,77
Absorbed current	A	14,6	8,40	16,9	7,4	21,3	12,2	29,0	16,7	39,3	21,6
Start-up current	A	119	62	171	70	190	82	127	224	208	126
Maximum absorbed current	A	20,6	9,80	25,2	13,8	29,8	15,0	35,8	19,2	51,0	34,5

CONDENSER

Type	"Tube-in-tube", coaxial, water-cooled					
Water connections	(")	2"	2"	2"	2"	2"

REFRIGERANT

407C refrigerant charge	kg	2 x 2,3	2 x 2,7	2 x 3,6	2 x 4,1	2 x 4,1
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GENERAL SPECIFICATIONS FOR THE ELECTRICAL INSTALLATION

Voltage (50 Hz ac)	V	230.III	400.III	230.III	400.III	230.III	400.III	230.III	400.III	230.III	400.III
Absorbed power	kW	4,95		5,73	5,60	7,20		9,82		13,28	10,77
Absorbed current	A	14,6	8,40	16,9	7,4	21,3	12,2	29,0	16,7	39,3	21,6
Maximum absorbed current	A	20,6	9,80	25,2	13,8	29,8	15,0	35,8	19,2	51,0	34,5

SOUND PRESSURE (at 2 metres)

Unit	dB (A)	67	67	67	69	69
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Notes:

UCWZ units are sent charged with nitrogen. When a unit is ordered with the quick-fit valve option, the base refrigerant charge is 407C. The indicated charge values are approximate and only for UCWZ without evaporator or refrigerant lines.

COOLING CAPACITIES

ENTER AIR WET BULB TEMP.	UNIT SIZE	UCWZ 201 - ESHZ 201				UCWZ 271 - ESHZ 271				UCWZ 351 - ECVZ 351							
		EVAP. AIR FLOW l/s		278				472				638					
		CONDENSING TEMPER °C		35	40	45	50	35	40	45	50	35	40	45	50		
15	TOTAL CAPACITY	kW		5,71	5,47	5,22	4,96	8,03	7,70	7,34	6,97	10,08	9,67	9,22	8,75		
	POWER INPUT	kW		1,75	1,92	2,09	2,27	2,41	2,64	2,88	3,13	2,93	3,21	3,50	3,81		
	COOLING	kW	SENSIBLE EDBT	19 °C		4,09	3,93	3,77	3,62	5,75	5,53	5,31	5,09	7,22	6,94	6,66	6,39
			21 °C	4,69	4,52	4,37	4,21	6,59	6,36	6,14	5,92	8,28	7,98	7,71	7,43		
				23 °C	5,29	5,13	4,98	4,82	7,44	7,21	7,00	6,78	9,34	9,06	8,78	8,51	
25 °C	5,71	5,47	5,22	4,96	8,03	7,70	7,34	6,97	10,08	9,67	9,22	8,75					
17	TOTAL CAPACITY	kW		6,18	5,94	5,69	5,42	8,68	8,36	7,99	7,63	10,90	10,49	10,04	9,57		
	POWER INPUT	kW		1,79	1,96	2,13	2,31	2,46	2,69	2,93	3,18	3,00	3,28	3,57	3,88		
	COOLING	kW	SENSIBLE EDBT	21 °C		4,08	3,92	3,76	3,61	5,74	5,51	5,29	5,07	7,20	6,92	6,64	6,37
			23 °C	4,68	4,52	4,36	4,21	6,58	6,36	6,14	5,92	8,27	7,99	7,70	7,43		
				25 °C	5,28	5,12	4,96	4,81	7,43	7,20	6,98	6,77	9,33	9,04	8,76	8,50	
27 °C	5,89	5,73	5,56	5,42	8,28	8,05	7,82	7,62	10,40	10,11	9,82	9,57					
19	TOTAL CAPACITY	kW		6,63	6,40	6,15	5,89	9,33	9,00	8,65	8,28	11,71	11,30	10,86	10,40		
	POWER INPUT	kW		1,84	2,00	2,17	2,35	2,53	2,75	2,99	3,24	3,09	3,35	3,64	3,94		
	COOLING	kW	SENSIBLE EDBT	23 °C		4,08	3,92	3,76	3,61	5,73	5,51	5,29	5,07	7,20	6,92	6,64	6,37
			25 °C	4,67	4,52	4,36	4,21	6,57	6,36	6,13	5,92	8,25	7,98	7,70	7,43		
				27 °C	5,28	5,12	4,96	4,81	7,42	7,20	6,98	6,76	9,32	9,04	8,76	8,49	
29 °C	5,89	5,73	5,57	5,42	8,28	8,05	7,83	7,62	10,39	10,11	9,83	9,56					
21	TOTAL CAPACITY	kW		7,11	6,87	6,62	6,34	9,99	9,66	9,31	8,92	12,55	12,13	11,69	11,20		
	POWER INPUT	kW		1,89	2,04	2,21	2,39	2,59	2,80	3,03	3,29	3,16	3,42	3,69	4,01		
	COOLING	kW	SENSIBLE EDBT	25 °C		4,04	3,89	3,74	3,58	5,69	5,47	5,26	5,04	7,14	6,87	6,60	6,33
			27 °C	4,67	4,51	4,35	4,20	6,57	6,34	6,12	5,91	8,24	7,96	7,68	7,42		
				29 °C	5,26	5,11	4,95	4,80	7,40	7,18	6,96	6,75	9,30	9,02	8,74	8,47	
31 °C	5,88	5,72	5,56	5,41	8,26	8,04	7,81	7,60	10,37	10,09	9,81	9,55					
UK CONDITIONS 22 °C DB - 16 °C WB 40 °C COND - 47 °C COND - 50 °C COND				TOTAL	5,71	6,07	5,19	TOTAL	8,03	8,54	7,30	TOTAL	10,08	10,72	9,16		
				SENS	4,52	4,74	4,21	SENS	6,36	6,67	5,92	SENS	7,99	8,37	7,44		
				IMPUT	1,94	1,70	2,29	IMPUT	2,67	2,32	3,16	IMPUT	3,25	2,83	3,85		

ENTER AIR WET BULB TEMP.	UNIT SIZE	UCWZ 401 - ECVZ 401				UCWZ 501 - ECVZ 501				UCWZ 701 - ECVZ 701							
		EVAP. AIR FLOW l/s		722				972				1305					
		CONDENSING TEMPER °C		35	40	45	50	35	40	45	50	35	40	45	50		
15	TOTAL CAPACITY	kW		11,95	11,46	10,93	10,38	14,81	14,20	13,54	12,85	18,37	17,62	16,80	15,95		
	POWER INPUT	kW		3,59	3,93	4,29	4,66	4,46	4,89	5,33	5,80	5,73	6,28	6,85	7,45		
	COOLING	kW	SENSIBLE EDBT	19 °C		8,56	8,23	7,90	7,57	10,60	10,19	9,79	9,38	13,15	12,65	12,15	11,64
			21 °C	9,82	9,47	9,14	8,82	12,16	11,73	11,33	10,92	15,09	14,55	14,06	13,55		
				23 °C	11,07	10,74	10,42	10,10	13,72	13,31	12,90	12,51	17,02	16,51	16,01	15,52	
25 °C	11,95	11,46	10,93	10,38	14,81	14,20	13,54	12,85	18,37	17,62	16,80	15,95					
17	TOTAL CAPACITY	kW		12,93	12,44	11,90	11,35	16,02	15,41	14,75	14,07	19,88	19,12	18,30	17,46		
	POWER INPUT	kW		3,67	4,01	4,37	4,74	4,56	4,99	5,43	5,90	5,86	6,41	6,98	7,58		
	COOLING	kW	SENSIBLE EDBT	21 °C		8,54	8,21	7,87	7,56	10,58	10,17	9,75	9,36	13,13	12,62	12,10	11,61
			23 °C	9,80	9,47	9,13	8,82	12,15	11,73	11,32	10,92	15,07	14,56	14,04	13,55		
				25 °C	11,06	10,72	10,39	10,08	13,70	13,29	12,87	12,49	17,00	16,49	15,97	15,50	
27 °C	12,33	11,99	11,65	11,34	15,28	14,85	14,43	14,05	18,96	18,43	17,91	17,44					
19	TOTAL CAPACITY	kW		13,89	13,40	12,88	12,33	17,21	16,60	15,96	15,27	21,35	20,60	19,80	18,95		
	POWER INPUT	kW		3,78	4,10	4,45	4,83	4,70	5,10	5,54	6,00	6,03	6,55	7,11	7,71		
	COOLING	kW	SENSIBLE EDBT	23 °C		8,53	8,20	7,87	7,55	10,57	10,16	9,75	9,36	13,12	12,61	12,10	11,61
			25 °C	9,79	9,47	9,13	8,81	12,12	11,73	11,31	10,92	15,05	14,55	14,04	13,55		
				27 °C	11,05	10,72	10,39	10,07	13,69	13,28	12,87	12,47	16,99	16,48	15,97	15,48	
29 °C	12,32	11,99	11,66	11,34	15,26	14,86	14,44	14,05	18,94	18,44	17,92	17,43					
21	TOTAL CAPACITY	kW		14,88	14,38	13,86	13,28	18,43	17,81	17,17	16,45	22,87	22,11	21,31	20,41		
	POWER INPUT	kW		3,87	4,18	4,52	4,90	4,81	5,20	5,63	6,10	6,18	6,68	7,22	7,83		
	COOLING	kW	SENSIBLE EDBT	25 °C		8,47	8,15	7,83	7,50	10,49	10,09	9,69	9,30	13,02	12,52	12,03	11,54
			27 °C	9,77	9,44	9,11	8,79	12,11	11,70	11,28	10,89	15,03	14,52	14,00	13,52		
				29 °C	11,02	10,70	10,36	10,05	13,66	13,25	12,84	12,45	16,95	16,44	15,93	15,45	
31 °C	12,30	11,97	11,63	11,32	15,24	14,83	14,41	14,02	18,91	18,40	17,89	17,40					
UK CONDITIONS 22 °C DB - 16 °C WB 40 °C COND - 47 °C COND - 50 °C COND				TOTAL	11,95	12,71	10,87	TOTAL	14,81	15,75	13,46	TOTAL	18,37	19,54	16,71		
				SENS	9,47	9,93	8,83	SENS	11,74	12,30	10,93	SENS	14,56	15,26	13,56		
				IMPUT	3,97	3,46	4,70	IMPUT	4,94	4,30	5,85	IMPUT	6,35	5,53	7,52		

- Notes
1. Cooling capacities are NET after deduction of indoor standard motor heat
 2. EDBT- Entering Air Dry Bulb Temp. (°C)
 3. Power Input (kW): Total Unit Power Input.
 4. When Evaporator Coil air flow is different from the nominal air flow use following multipliers:

MODEL	MULTIPLIER	PERCENT OF AIR FLOW				
		80%	90%	100%	110%	120%
ALL MODELS	K _T	0,95	0,97	1	1,03	1,05
	K _S	0,92	0,96	1	1,04	1,08
	K _W	0,96	0,98	1	1,02	1,03

K_T= Total Capacity
K_S= Sensible Capacity
K_W= Power Input

COOLING CAPACITIES

ENTER AIR WET BULB TEMP.	UNIT SIZE		UCWZ 721 - ECVZ 721				UCWZ 751 - ECVZ 751				UCWZ 1001 - ECVZ 1001			
	EVAP. AIR FLOW l/s		1305				1389				1944			
	CONDENSING TEMPER °C		35	40	45	50	35	40	45	50	35	40	45	50
15	TOTAL CAPACITY	kW	20,52	19,68	18,76	17,81	22,39	21,47	20,48	19,44	31,58	30,28	28,88	27,41
	POWER INPUT	kW	6,26	6,86	7,48	8,13	7,26	7,96	8,68	9,44	9,58	10,50	11,45	12,45
	SENSIBLE COOLING	EDBT 19 °C	14,69	14,12	13,56	13,00	16,03	15,41	14,80	14,19	22,60	21,73	20,87	20,01
	COOLING	21 °C	16,85	16,25	15,70	15,13	18,39	17,73	17,13	16,51	25,93	25,01	24,16	23,29
	kW	23 °C	19,00	18,44	17,88	17,33	20,74	20,12	19,51	18,91	29,25	28,38	27,52	26,67
		25 °C	20,52	19,68	18,76	17,81	22,39	21,47	20,48	19,44	31,58	30,28	28,88	27,41
17	TOTAL CAPACITY	kW	22,19	21,35	20,43	19,49	24,22	23,30	22,30	21,27	34,16	32,86	31,45	30,00
	POWER INPUT	kW	6,40	7,00	7,62	8,27	7,43	8,13	8,84	9,60	9,80	10,72	11,67	12,67
	SENSIBLE COOLING	EDBT 21 °C	14,66	14,09	13,51	12,97	16,00	15,38	14,75	14,15	22,57	21,69	20,80	19,96
	COOLING	23 °C	16,83	16,25	15,68	15,13	18,36	17,74	17,11	16,51	25,90	25,02	24,13	23,29
	kW	25 °C	18,98	18,41	17,83	17,30	20,71	20,09	19,46	18,88	29,22	28,33	27,45	26,63
		27 °C	21,17	20,58	20,00	19,47	23,10	22,46	21,82	21,25	32,58	31,68	30,78	29,96
19	TOTAL CAPACITY	kW	23,84	23,00	22,11	21,16	26,02	25,10	24,13	23,10	36,69	35,40	34,03	32,57
	POWER INPUT	kW	6,59	7,15	7,77	8,42	7,65	8,30	9,02	9,77	10,09	10,95	11,89	12,89
	SENSIBLE COOLING	EDBT 23 °C	14,65	14,08	13,51	12,97	15,99	15,37	14,75	14,15	22,55	21,68	20,80	19,95
	COOLING	25 °C	16,80	16,25	15,68	15,13	18,33	17,73	17,11	16,51	25,86	25,01	24,13	23,28
	kW	27 °C	18,97	18,40	17,83	17,28	20,70	20,08	19,46	18,86	29,19	28,32	27,44	26,60
		29 °C	21,15	20,58	20,01	19,47	23,08	22,46	21,84	21,24	32,55	31,68	30,80	29,96
21	TOTAL CAPACITY	kW	25,54	24,68	23,79	22,79	27,87	26,93	25,97	24,87	39,31	37,99	36,62	35,08
	POWER INPUT	kW	6,74	7,29	7,89	8,55	7,83	8,46	9,15	9,93	10,33	11,16	12,08	13,10
	SENSIBLE COOLING	EDBT 25 °C	14,54	13,98	13,43	12,88	15,86	15,26	14,66	14,06	22,37	21,52	20,67	19,82
	COOLING	27 °C	16,78	16,21	15,63	15,09	18,31	17,69	17,06	16,47	25,82	24,94	24,06	23,23
	kW	29 °C	18,92	18,36	17,79	17,25	20,65	20,04	19,41	18,82	29,12	28,26	27,38	26,55
		31 °C	21,11	20,54	19,97	19,43	23,04	22,42	21,79	21,21	32,50	31,62	30,74	29,91
UK CONDITIONS 22 °C DB - 16 °C WB 40 °C COND - 47 °C COND - 50 °C COND			TOTAL	20,52	21,82	18,65	TOTAL	22,39	23,81	20,36	TOTAL	31,57	33,58	28,71
			SENS	16,26	17,04	15,14	SENS	17,74	18,60	16,52	SENS	25,03	26,23	23,30
			IMPUT	6,93	6,04	8,20	IMPUT	8,05	7,01	9,52	IMPUT	10,61	9,25	12,56

ENTER AIR WET BULB TEMP.	UNIT SIZE		UCWZ 1002 - ECVZ 1002				UCWZ 1201 - ECVZ 1201				UCWZ 1402 - ECVZ 1402			
	EVAP. AIR FLOW l/s		2028				2222				2222			
	CONDENSING TEMPER °C		35	40	45	50	35	40	45	50	35	40	45	50
15	TOTAL CAPACITY	kW	31,75	30,45	29,04	27,57	36,12	34,65	33,04	31,36	36,75	35,24	33,61	31,90
	POWER INPUT	kW	9,49	10,41	11,34	12,34	10,76	11,80	12,86	13,99	10,98	12,04	13,12	14,27
	SENSIBLE COOLING	EDBT 19 °C	22,73	21,86	20,99	20,12	25,86	24,86	23,88	22,89	26,31	25,29	24,29	23,28
	COOLING	21 °C	26,08	25,15	24,29	23,42	29,67	28,61	27,64	26,64	30,18	29,10	28,11	27,10
	kW	23 °C	29,41	28,54	27,67	26,82	33,46	32,47	31,48	30,52	34,04	33,03	32,03	31,04
		25 °C	31,75	30,45	29,04	27,57	36,12	34,65	33,04	31,36	36,75	35,24	33,61	31,90
17	TOTAL CAPACITY	kW	34,35	33,05	31,62	30,17	39,08	37,60	35,98	34,32	39,75	38,25	36,60	34,91
	POWER INPUT	kW	9,71	10,62	11,56	12,56	11,00	12,04	13,10	14,23	11,23	12,29	13,37	14,52
	SENSIBLE COOLING	EDBT 21 °C	22,70	21,81	20,92	20,07	25,82	24,81	23,80	22,84	26,27	25,24	24,21	23,23
	COOLING	23 °C	26,05	25,16	24,27	23,42	29,63	28,62	27,61	26,64	30,14	29,12	28,08	27,11
	kW	25 °C	29,38	28,49	27,60	26,78	33,42	32,41	31,40	30,46	34,00	32,97	31,94	30,99
		27 °C	32,76	31,86	30,95	30,13	37,27	36,24	35,21	34,28	37,91	36,87	35,82	34,87
19	TOTAL CAPACITY	kW	36,90	35,60	34,22	32,76	41,98	40,50	38,93	37,27	42,71	41,20	39,60	37,91
	POWER INPUT	kW	10,00	10,85	11,79	12,77	11,33	12,30	13,36	14,48	11,56	12,55	13,63	14,78
	SENSIBLE COOLING	EDBT 23 °C	22,67	21,80	20,91	20,07	25,79	24,80	23,79	22,83	26,24	25,23	24,20	23,22
	COOLING	25 °C	26,00	25,15	24,26	23,42	29,58	28,61	27,60	26,64	30,09	29,10	28,08	27,10
	kW	27 °C	29,36	28,48	27,60	26,75	33,40	32,40	31,39	30,43	33,97	32,96	31,94	30,96
		29 °C	32,74	31,86	30,98	30,13	37,24	36,25	35,24	34,28	37,89	36,87	35,85	34,87
21	TOTAL CAPACITY	kW	39,53	38,20	36,83	35,28	44,97	43,46	41,90	40,13	45,75	44,21	42,62	40,83
	POWER INPUT	kW	10,23	11,06	11,97	12,98	11,60	12,54	13,57	14,71	11,83	12,79	13,84	15,01
	SENSIBLE COOLING	EDBT 25 °C	22,50	21,64	20,79	19,94	25,60	24,62	23,65	22,68	26,04	25,05	24,06	23,07
	COOLING	27 °C	25,97	25,09	24,20	23,36	29,54	28,54	27,53	26,58	30,05	29,03	28,00	27,04
	kW	29 °C	29,29	28,42	27,53	26,70	33,32	32,33	31,32	30,37	33,89	32,89	31,86	30,90
		31 °C	32,68	31,80	30,91	30,08	37,18	36,18	35,16	34,22	37,82	36,80	35,77	34,81
UK CONDITIONS 22 °C DB - 16 °C WB 40 °C COND - 47 °C COND - 50 °C COND			TOTAL	31,75	33,77	28,87	TOTAL	36,13	38,42	32,84	TOTAL	36,75	39,08	33,41
			SENS	25,17	26,38	23,43	SENS	28,63	30,00	26,66	SENS	29,12	30,52	27,12
			IMPUT	10,52	9,16	12,45	IMPUT	11,92	10,39	14,11	IMPUT	12,17	10,60	14,40

- Notes
1. Cooling capacities are NET after deduction of indoor standard motor heat
 2. EDBT- Entering Air Dry Bulb Temp. (°C)
 3. Power Input (kW): Total Unit Power Input.
 4. When Evaporator Coil air flow is different from the nominal air flow use following multipliers:

MODEL	MULTIPLIER	PERCENT OF AIR FLOW				
		80%	90%	100%	110%	120%
ALL MODELS	K _T	0,95	0,97	1	1,03	1,05
	K _S	0,92	0,96	1	1,04	1,08
	K _W	0,96	0,98	1	1,02	1,03

K_T= Total Capacity
K_S= Sensible Capacity
K_W= Power Input

COOLING CAPACITIES

ENTER AIR WET BULB TEMP.	UNIT SIZE	UCWZ 1502 - ECVZ 1502				UCWZ 2002 - ECVZ 2002				UCWZ 2402 - ECVZ 2402					
		EVAP. AIR FLOW l/s		2500				3055				3333			
		CONDENSING TEMPER °C		35	40	45	50	35	40	45	50	35	40	45	50
15	TOTAL CAPACITY	kW		44,78	42,94	40,95	38,87	63,15	60,57	57,76	54,82	72,25	69,29	66,08	62,72
	POWER INPUT	kW		12,99	14,25	15,53	16,89	18,81	20,63	22,48	24,45	21,18	23,22	25,30	27,52
	SENSIBLE COOLING	EDBT	19 °C	32,05	30,82	29,60	28,37	45,21	43,47	41,75	40,01	51,72	49,73	47,76	45,78
			21 °C	36,78	35,46	34,26	33,02	51,87	50,01	48,31	46,58	59,34	57,22	55,27	53,29
			23 °C	41,48	40,24	39,02	37,83	58,50	56,76	55,04	53,35	66,93	64,93	62,97	61,03
		25 °C	44,78	42,94	40,95	38,87	63,15	60,57	57,76	54,82	72,25	69,29	66,08	62,72	
17	TOTAL CAPACITY	kW		48,44	46,60	44,59	42,54	68,31	65,73	62,89	59,99	78,15	75,20	71,95	68,63
	POWER INPUT	kW		13,28	14,54	15,82	17,18	19,23	21,05	22,90	24,88	21,65	23,69	25,78	28,00
	SENSIBLE COOLING	EDBT	21 °C	32,01	30,76	29,50	28,30	45,14	43,38	41,60	39,92	51,65	49,62	47,60	45,67
			23 °C	36,73	35,48	34,22	33,03	51,80	50,04	48,26	46,58	59,26	57,24	55,22	53,29
			25 °C	41,43	40,18	38,92	37,76	58,43	56,66	54,89	53,26	66,85	64,83	62,80	60,93
		27 °C	46,20	44,92	43,64	42,49	65,15	63,36	61,55	59,93	74,54	72,48	70,42	68,56	
19	TOTAL CAPACITY	kW		52,03	50,20	48,26	46,19	73,39	70,80	68,06	65,14	83,96	81,00	77,86	74,53
	POWER INPUT	kW		13,68	14,85	16,13	17,48	19,81	21,50	23,35	25,31	22,29	24,20	26,29	28,49
	SENSIBLE COOLING	EDBT	23 °C	31,97	30,74	29,49	28,30	45,09	43,35	41,59	39,91	51,59	49,60	47,59	45,66
			25 °C	36,67	35,46	34,21	33,02	51,71	50,01	48,25	46,57	59,16	57,22	55,21	53,28
			27 °C	41,40	40,16	38,91	37,72	58,38	56,64	54,88	53,20	66,79	64,80	62,79	60,86
		29 °C	46,16	44,93	43,68	42,49	65,10	63,36	61,60	59,92	74,48	72,49	70,48	68,55	
21	TOTAL CAPACITY	kW		55,74	53,87	51,93	49,75	78,61	75,97	73,25	70,16	89,94	86,92	83,80	80,27
	POWER INPUT	kW		14,00	15,14	16,38	17,76	20,27	21,92	23,71	25,71	22,82	24,67	26,69	28,94
	SENSIBLE COOLING	EDBT	25 °C	31,73	30,52	29,32	28,11	44,75	43,05	41,35	39,65	51,19	49,25	47,30	45,36
			27 °C	36,62	35,37	34,12	32,94	51,65	49,89	48,12	46,46	59,09	57,08	55,06	53,16
			29 °C	41,30	40,07	38,82	37,64	58,24	56,52	54,75	53,09	66,63	64,66	62,64	60,74
		31 °C	46,09	44,84	43,59	42,41	65,00	63,24	61,47	59,81	74,36	72,35	70,33	68,43	
UK CONDITIONS 22 °C DB - 16 °C WB 40 °C COND - 47 °C COND - 50 °C COND				TOTAL	44,77	47,62	40,71	TOTAL	63,15	67,17	57,41	TOTAL	72,25	76,84	65,68
				SENS	35,49	37,19	33,05	SENS	50,05	52,46	46,61	SENS	57,25	60,01	53,32
				IMPUT	14,40	12,55	17,04	IMPUT	20,84	18,16	24,67	IMPUT	23,46	20,44	27,76

- Notes
1. Cooling capacities are NET after deduction of indoor standard motor heat
 2. EDBT- Entering Air Dry Bulb Temp. (°C)
 3. Power Input (kW): Total Unit Power Input.
 4. When Evaporator Coil air flow is different from the nominal air flow use following multipliers:

MODEL	MULTIPLIER	PERCENT OF AIR FLOW				
		80%	90%	100%	110%	120%
ALL MODELS	K _T	0,95	0,97	1	1,03	1,05
	K _S	0,92	0,96	1	1,04	1,08
	K _W	0,96	0,98	1	1,02	1,03

K_T= Total Capacity
K_S= Sensible Capacity
K_W= Power Input

WATER VOLUMES

MODEL	ENTERING WATER TEMPERATURE °C			15		20		25		30		35	
	CONDENSING	EWBT °C	COOLING CAPACITY KW	LWT °C	WATER	LWT °C	WATER	LWT °C	WATER	LWT °C	WATER	LWT °C	WATER
	TEMP. °C			FLOW L/s	FLOW L/s	FLOW L/s	FLOW L/s	FLOW L/s	FLOW L/s				
UCWZ 201 - ESHZ 201	35	15	5,71	28,21	0,13	28,81	0,20	29,40	0,40	-	-	-	-
		17	6,18	29,11	0,13	29,41	0,20	29,70	0,40	-	-	-	-
		19	6,63	30,00	0,13	30,00	0,20	30,00	0,40	-	-	-	-
		21	7,11	30,94	0,13	30,63	0,20	30,31	0,40	-	-	-	-
	40	15	5,47	32,60	0,10	33,20	0,13	33,80	0,20	34,40	0,40	-	-
		17	5,94	33,81	0,10	34,11	0,13	34,40	0,20	34,70	0,40	-	-
		19	6,40	35,00	0,10	35,00	0,13	35,00	0,20	35,00	0,40	-	-
		21	6,87	36,21	0,10	35,91	0,13	35,61	0,20	35,30	0,40	-	-
	45	15	5,22	36,97	0,08	37,57	0,10	38,18	0,13	38,79	0,20	39,39	0,40
		17	5,69	38,50	0,08	38,80	0,10	39,10	0,13	39,40	0,20	39,70	0,40
		19	6,15	40,00	0,08	40,00	0,10	40,00	0,13	40,00	0,20	40,00	0,40
		21	6,62	41,53	0,08	41,23	0,10	40,92	0,13	40,61	0,20	40,31	0,40
50	15	4,96	41,32	0,07	41,94	0,08	42,55	0,10	43,16	0,13	43,77	0,20	
	17	5,42	43,14	0,07	43,45	0,08	43,76	0,10	44,07	0,13	44,38	0,20	
	19	5,89	45,00	0,07	45,00	0,08	45,00	0,10	45,00	0,13	45,00	0,20	
	21	6,34	46,78	0,07	46,49	0,08	46,19	0,10	45,89	0,13	45,59	0,20	
UCWZ 271 - ESHZ 271	35	15	8,03	28,20	0,19	28,80	0,28	29,40	0,57	-	-	-	-
		17	8,68	29,09	0,19	29,39	0,28	29,70	0,57	-	-	-	-
		19	9,33	30,00	0,19	30,00	0,28	30,00	0,57	-	-	-	-
		21	9,99	30,91	0,19	30,61	0,28	30,30	0,57	-	-	-	-
	40	15	7,70	32,60	0,14	33,20	0,19	33,80	0,28	34,40	0,56	-	-
		17	8,36	33,81	0,14	34,11	0,19	34,40	0,28	34,70	0,56	-	-
		19	9,00	35,00	0,14	35,00	0,19	35,00	0,28	35,00	0,56	-	-
		21	9,66	36,21	0,14	35,91	0,19	35,60	0,28	35,30	0,56	-	-
	45	15	7,34	36,95	0,11	37,56	0,14	38,17	0,19	38,78	0,28	39,39	0,56
		17	7,99	38,45	0,11	38,76	0,14	39,07	0,19	39,38	0,28	39,69	0,56
		19	8,65	40,00	0,11	40,00	0,14	40,00	0,19	40,00	0,28	40,00	0,56
		21	9,31	41,50	0,11	41,20	0,14	40,90	0,19	40,60	0,28	40,30	0,56
50	15	6,97	41,30	0,09	41,92	0,11	42,53	0,14	43,15	0,18	43,77	0,28	
	17	7,63	43,15	0,09	43,46	0,11	43,77	0,14	44,08	0,18	44,38	0,28	
	19	8,28	45,00	0,09	45,00	0,11	45,00	0,14	45,00	0,18	45,00	0,28	
	21	8,92	46,80	0,09	46,50	0,11	46,20	0,14	45,90	0,18	45,60	0,28	
UCWZ 351 - ECVZ 351	35	15	10,08	28,19	0,24	28,79	0,35	29,40	0,71	-	-	-	-
		17	10,90	29,09	0,24	29,39	0,35	29,70	0,71	-	-	-	-
		19	11,71	30,00	0,24	30,00	0,35	30,00	0,71	-	-	-	-
		21	12,55	30,92	0,24	30,61	0,35	30,31	0,71	-	-	-	-
	40	15	9,67	32,58	0,17	33,19	0,23	33,79	0,35	34,40	0,70	-	-
		17	10,49	33,80	0,17	34,10	0,23	34,40	0,35	34,70	0,70	-	-
		19	11,30	35,00	0,17	35,00	0,23	35,00	0,35	35,00	0,70	-	-
		21	12,13	36,23	0,17	35,92	0,23	35,61	0,35	35,31	0,70	-	-
	45	15	9,22	36,93	0,14	37,54	0,17	38,16	0,23	38,77	0,35	39,39	0,69
		17	10,04	38,47	0,14	38,77	0,17	39,08	0,23	39,39	0,35	39,69	0,69
		19	10,86	40,00	0,14	40,00	0,17	40,00	0,23	40,00	0,35	40,00	0,69
		21	11,69	41,52	0,14	41,21	0,17	40,91	0,23	40,61	0,35	40,30	0,69
50	15	3,81	41,28	0,11	41,90	0,14	42,52	0,17	43,14	0,23	43,76	0,34	
	17	9,57	43,14	0,11	43,45	0,14	43,76	0,17	44,07	0,23	44,38	0,34	
	19	10,40	45,00	0,11	45,00	0,14	45,00	0,17	45,00	0,23	45,00	0,34	
	21	11,20	46,82	0,11	46,52	0,14	46,21	0,17	45,91	0,23	45,61	0,34	

EWBT= Entering Air Wet Bulb Temperature (°C)

LWT= Leaving Water Temperature (°C)

WT= Water Flow (l/s)

WATER VOLUMES

MODEL	ENTERING WATER TEMPERATURE °C			15		20		25		30		35	
	CONDENSING	EWBT °C	COOLING CAPACITY KW	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s
	TEMP. °C												
UCWZ 401 - ECVZ 401	35	15	11,95	28,19	0,28	28,79	0,42	29,40	0,84	-	-	-	-
		17	12,93	29,09	0,28	29,39	0,42	29,70	0,84	-	-	-	-
		19	13,89	30,00	0,28	30,00	0,42	30,00	0,84	-	-	-	-
		21	14,88	30,92	0,28	30,61	0,42	30,31	0,84	-	-	-	-
	40	15	11,46	32,59	0,21	33,19	0,28	33,79	0,42	34,40	0,84	-	-
		17	12,44	33,80	0,21	34,10	0,28	34,40	0,42	34,70	0,84	-	-
		19	13,40	35,00	0,21	35,00	0,28	35,00	0,42	35,00	0,84	-	-
		21	14,38	36,21	0,21	35,91	0,28	35,61	0,42	35,30	0,84	-	-
	45	15	10,93	36,96	0,17	37,56	0,21	38,17	0,28	38,78	0,41	39,39	0,83
		17	11,90	38,47	0,17	38,78	0,21	39,08	0,28	39,39	0,41	39,69	0,83
		19	12,88	40,00	0,17	40,00	0,21	40,00	0,28	40,00	0,41	40,00	0,83
		21	13,86	41,51	0,17	41,21	0,21	40,91	0,28	40,61	0,41	40,30	0,83
50	15	10,38	41,29	0,14	41,91	0,16	42,53	0,20	43,15	0,27	43,76	0,41	
	17	11,35	43,13	0,14	43,44	0,16	43,75	0,20	44,06	0,27	44,38	0,41	
	19	12,33	45,00	0,14	45,00	0,16	45,00	0,20	45,00	0,27	45,00	0,41	
	21	13,28	46,78	0,14	46,49	0,16	46,19	0,20	45,89	0,27	45,59	0,41	
UCWZ 501 - ECVZ 501	35	15	14,81	28,19	0,35	28,80	0,52	29,40	1,05	-	-	-	-
		17	16,02	29,09	0,35	29,39	0,52	29,70	1,05	-	-	-	-
		19	17,21	30,00	0,35	30,00	0,52	30,00	1,05	-	-	-	-
		21	18,43	30,91	0,35	30,61	0,52	30,30	1,05	-	-	-	-
	40	15	14,20	32,59	0,26	33,20	0,35	33,80	0,52	34,40	1,04	-	-
		17	15,41	33,80	0,26	34,10	0,35	34,40	0,52	34,70	1,04	-	-
		19	16,60	35,00	0,26	35,00	0,35	35,00	0,52	35,00	1,04	-	-
		21	17,81	36,21	0,26	35,91	0,35	35,60	0,52	35,30	1,04	-	-
	45	15	13,54	36,94	0,21	37,55	0,26	38,17	0,34	38,78	0,51	39,39	1,03
		17	14,75	38,47	0,21	38,77	0,26	39,08	0,34	39,39	0,51	39,69	1,03
		19	15,96	40,00	0,21	40,00	0,26	40,00	0,34	40,00	0,51	40,00	1,03
		21	17,17	41,51	0,21	41,21	0,26	40,91	0,34	40,60	0,51	40,30	1,03
50	15	12,85	41,30	0,17	41,92	0,20	42,54	0,25	43,15	0,34	43,77	0,51	
	17	14,07	43,17	0,17	43,47	0,20	43,78	0,25	44,08	0,34	44,39	0,51	
	19	15,27	45,00	0,17	45,00	0,20	45,00	0,25	45,00	0,34	45,00	0,51	
	21	16,45	46,81	0,17	46,50	0,20	46,20	0,25	45,90	0,34	45,60	0,51	
UCWZ 701 - ECVZ 701	35	15	18,37	28,20	0,44	28,80	0,65	29,40	1,31	-	-	-	-
		17	19,88	29,10	0,44	29,40	0,65	29,70	1,31	-	-	-	-
		19	21,35	30,00	0,44	30,00	0,65	30,00	1,31	-	-	-	-
		21	22,87	30,91	0,44	30,61	0,65	30,30	1,31	-	-	-	-
	40	15	17,62	32,61	0,32	33,20	0,43	33,80	0,65	34,40	1,30	-	-
		17	19,12	33,81	0,32	34,10	0,43	34,40	0,65	34,70	1,30	-	-
		19	20,60	35,00	0,32	35,00	0,43	35,00	0,65	35,00	1,30	-	-
		21	22,11	36,21	0,32	35,91	0,43	35,60	0,65	35,30	1,30	-	-
	45	15	16,80	36,97	0,26	37,58	0,32	38,18	0,43	38,79	0,64	39,39	1,29
		17	18,30	38,49	0,26	38,79	0,32	39,09	0,43	39,39	0,64	39,70	1,29
		19	19,80	40,00	0,26	40,00	0,32	40,00	0,43	40,00	0,64	40,00	1,29
		21	21,31	41,51	0,26	41,20	0,32	40,90	0,43	40,60	0,64	40,30	1,29
50	15	7,45	41,33	0,21	41,94	0,25	42,55	0,32	43,17	0,42	43,78	0,64	
	17	17,46	43,18	0,21	43,48	0,25	43,78	0,32	44,09	0,42	44,39	0,64	
	19	18,95	45,00	0,21	45,00	0,25	45,00	0,32	45,00	0,42	45,00	0,64	
	21	20,41	46,78	0,21	46,48	0,25	46,19	0,32	45,89	0,42	45,59	0,64	

EWBT= Entering Air Wet Bulb Temperature (°C)

LWT= Leaving Water Temperature (°C)

WT= Water Flow (l/s)

WATER VOLUMES

MODEL	ENTERING WATER TEMPERATURE °C			15		20		25		30		35	
	CONDENSING	EWBT °C	COOLING CAPACITY KW	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s
	TEMP. °C												
UCWZ 721 - ECVZ 721	35	15	20,52	28,20	0,48	28,80	0,73	29,40	1,45	-	-	-	-
		17	22,19	29,09	0,48	29,40	0,73	29,70	1,45	-	-	-	-
		19	23,84	30,00	0,48	30,00	0,73	30,00	1,45	-	-	-	-
		21	25,54	30,91	0,48	30,61	0,73	30,30	1,45	-	-	-	-
	40	15	19,68	32,61	0,36	33,20	0,48	33,80	0,72	34,40	1,44	-	-
		17	21,35	33,81	0,36	34,10	0,48	34,40	0,72	34,70	1,44	-	-
		19	23,00	35,00	0,36	35,00	0,48	35,00	0,72	35,00	1,44	-	-
		21	24,68	36,21	0,36	35,91	0,48	35,60	0,72	35,30	1,44	-	-
	45	15	18,76	36,95	0,29	37,56	0,36	38,17	0,48	38,78	0,71	39,39	1,43
		17	20,43	38,47	0,29	38,78	0,36	39,08	0,48	39,39	0,71	39,69	1,43
		19	22,11	40,00	0,29	40,00	0,36	40,00	0,48	40,00	0,71	40,00	1,43
		21	23,79	41,51	0,29	41,20	0,36	40,90	0,48	40,60	0,71	40,30	1,43
50	15	17,81	41,31	0,24	41,92	0,28	42,54	0,35	43,15	0,47	43,77	0,71	
	17	19,49	43,15	0,24	43,46	0,28	43,77	0,35	44,08	0,47	44,38	0,71	
	19	21,16	45,00	0,24	45,00	0,28	45,00	0,35	45,00	0,47	45,00	0,71	
	21	22,79	46,78	0,24	46,49	0,28	46,19	0,35	45,89	0,47	45,59	0,71	
UCWZ 751 - ECVZ 751	35	15	22,39	28,21	0,54	28,81	0,80	29,40	1,61	-	-	-	-
		17	24,22	29,10	0,54	29,40	0,80	29,70	1,61	-	-	-	-
		19	26,02	30,00	0,54	30,00	0,80	30,00	1,61	-	-	-	-
		21	27,87	30,90	0,54	30,60	0,80	30,30	1,61	-	-	-	-
	40	15	21,47	32,62	0,40	33,22	0,53	33,81	0,80	34,41	1,60	-	-
		17	23,30	33,82	0,40	34,12	0,53	34,41	0,80	34,71	1,60	-	-
		19	25,10	35,00	0,40	35,00	0,53	35,00	0,80	35,00	1,60	-	-
		21	26,93	36,19	0,40	35,89	0,53	35,60	0,80	35,30	1,60	-	-
	45	15	20,48	36,99	0,32	37,59	0,40	38,19	0,53	38,80	0,79	39,40	1,58
		17	22,30	38,48	0,32	38,79	0,40	39,09	0,53	39,39	0,79	39,70	1,58
		19	24,13	40,00	0,32	40,00	0,40	40,00	0,53	40,00	0,79	40,00	1,58
		21	25,97	41,49	0,32	41,19	0,40	40,89	0,53	40,59	0,79	40,30	1,58
50	15	19,44	41,36	0,26	41,97	0,31	42,57	0,39	43,18	0,52	43,79	0,79	
	17	21,27	43,17	0,26	43,48	0,31	43,78	0,39	44,09	0,52	44,39	0,79	
	19	23,10	45,00	0,26	45,00	0,31	45,00	0,39	45,00	0,52	45,00	0,79	
	21	24,87	46,76	0,26	46,47	0,31	46,17	0,39	45,88	0,52	45,59	0,79	
UCWZ 1001 - ECVZ 1001	35	15	31,58	28,20	0,75	28,80	1,12	29,40	2,24	-	-	-	-
		17	34,16	29,10	0,75	29,40	1,12	29,70	2,24	-	-	-	-
		19	36,69	30,00	0,75	30,00	1,12	30,00	2,24	-	-	-	-
		21	39,31	30,92	0,75	30,61	1,12	30,31	2,24	-	-	-	-
	40	15	30,28	32,60	0,55	33,20	0,74	33,80	1,11	34,40	2,21	-	-
		17	32,86	33,80	0,55	34,10	0,74	34,40	1,11	34,70	2,21	-	-
		19	35,40	35,00	0,55	35,00	0,74	35,00	1,11	35,00	2,21	-	-
		21	37,99	36,21	0,55	35,91	0,74	35,60	1,11	35,30	2,21	-	-
	45	15	28,88	36,96	0,44	37,57	0,55	38,17	0,73	38,78	1,10	39,39	2,19
		17	31,45	38,48	0,44	38,78	0,55	39,09	0,73	39,39	1,10	39,70	2,19
		19	34,03	40,00	0,44	40,00	0,55	40,00	0,73	40,00	1,10	40,00	2,19
		21	36,62	41,51	0,44	41,21	0,55	40,91	0,73	40,61	1,10	40,30	2,19
50	15	12,45	41,30	0,36	41,92	0,43	42,54	0,54	43,15	0,72	43,77	1,09	
	17	30,00	43,16	0,36	43,47	0,43	43,77	0,54	44,08	0,72	44,39	1,09	
	19	32,57	45,00	0,36	45,00	0,43	45,00	0,54	45,00	0,72	45,00	1,09	
	21	35,08	46,79	0,36	46,50	0,43	46,20	0,54	45,90	0,72	45,60	1,09	

EWBT= Entering Air Wet Bulb Temperature (°C)

LWT= Leaving Water Temperature (°C)

WT= Water Flow (l/s)

WATER VOLUMES

MODEL	ENTERING WATER TEMPERATURE °C			15		20		25		30		35	
	CONDENSING	EWBT °C	COOLING CAPACITY KW	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s
	TEMP. °C												
UCWZ 1002 - ECVZ 1002	35	15	31,75	28,19	0,75	28,79	1,12	29,40	2,24	-	-	-	-
		17	34,35	29,09	0,75	29,39	1,12	29,70	2,24	-	-	-	-
		19	36,90	30,00	0,75	30,00	1,12	30,00	2,24	-	-	-	-
		21	39,53	30,91	0,75	30,61	1,12	30,30	2,24	-	-	-	-
	40	15	30,45	32,59	0,55	33,19	0,74	33,80	1,11	34,40	2,22	-	-
		17	33,05	33,80	0,55	34,10	0,74	34,40	1,11	34,70	2,22	-	-
		19	35,60	35,00	0,55	35,00	0,74	35,00	1,11	35,00	2,22	-	-
		21	38,20	36,21	0,55	35,91	0,74	35,60	1,11	35,30	2,22	-	-
	45	15	29,04	36,94	0,44	37,55	0,55	38,16	0,73	38,78	1,10	39,39	2,20
		17	31,62	38,46	0,44	38,77	0,55	39,08	0,73	39,38	1,10	39,69	2,20
		19	34,22	40,00	0,44	40,00	0,55	40,00	0,73	40,00	1,10	40,00	2,20
		21	36,83	41,52	0,44	41,21	0,55	40,91	0,73	40,61	1,10	40,30	2,20
50	15	27,57	41,30	0,36	41,91	0,44	42,53	0,54	43,15	0,73	43,77	1,09	
	17	30,17	43,16	0,36	43,46	0,44	43,77	0,54	44,08	0,73	44,39	1,09	
	19	32,76	45,00	0,36	45,00	0,44	45,00	0,54	45,00	0,73	45,00	1,09	
	21	35,28	46,80	0,36	46,50	0,44	46,20	0,54	45,90	0,73	45,60	1,09	
UCWZ 1201 - ECVZ 1201	35	15	36,12	28,19	0,85	28,79	1,27	29,40	2,55	-	-	-	-
		17	39,08	29,09	0,85	29,39	1,27	29,70	2,55	-	-	-	-
		19	41,98	30,00	0,85	30,00	1,27	30,00	2,55	-	-	-	-
		21	44,97	30,92	0,85	30,61	1,27	30,31	2,55	-	-	-	-
	40	15	34,65	32,59	0,63	33,20	0,84	33,80	1,26	34,40	2,52	-	-
		17	37,60	33,80	0,63	34,10	0,84	34,40	1,26	34,70	2,52	-	-
		19	40,50	35,00	0,63	35,00	0,84	35,00	1,26	35,00	2,52	-	-
		21	43,46	36,21	0,63	35,91	0,84	35,61	1,26	35,30	2,52	-	-
	45	15	33,04	36,94	0,50	37,56	0,62	38,17	0,83	38,78	1,25	39,39	2,50
		17	35,98	38,47	0,50	38,77	0,62	39,08	0,83	39,39	1,25	39,69	2,50
		19	38,93	40,00	0,50	40,00	0,62	40,00	0,83	40,00	1,25	40,00	2,50
		21	41,90	41,52	0,50	41,22	0,62	40,91	0,83	40,61	1,25	40,30	2,50
50	15	31,36	41,29	0,41	41,91	0,49	42,53	0,62	43,14	0,82	43,76	1,24	
	17	34,32	43,14	0,41	43,45	0,49	43,76	0,62	44,07	0,82	44,38	1,24	
	19	37,27	45,00	0,41	45,00	0,49	45,00	0,62	45,00	0,82	45,00	1,24	
	21	40,13	46,79	0,41	46,49	0,49	46,19	0,62	45,90	0,82	45,60	1,24	
UCWZ 1402 - ECVZ 1402	35	15	36,75	28,19	0,86	28,79	1,30	29,40	2,59	-	-	-	-
		17	39,75	29,09	0,86	29,39	1,30	29,70	2,59	-	-	-	-
		19	42,71	30,00	0,86	30,00	1,30	30,00	2,59	-	-	-	-
		21	45,75	30,91	0,86	30,61	1,30	30,30	2,59	-	-	-	-
	40	15	35,24	32,59	0,64	33,19	0,86	33,80	1,28	34,40	2,57	-	-
		17	38,25	33,81	0,64	34,10	0,86	34,40	1,28	34,70	2,57	-	-
		19	41,20	35,00	0,64	35,00	0,86	35,00	1,28	35,00	2,57	-	-
		21	44,21	36,21	0,64	35,91	0,86	35,60	1,28	35,30	2,57	-	-
	45	15	33,61	36,95	0,51	37,56	0,64	38,17	0,85	38,78	1,27	39,39	2,54
		17	36,60	38,47	0,51	38,78	0,64	39,08	0,85	39,39	1,27	39,69	2,54
		19	39,60	40,00	0,51	40,00	0,64	40,00	0,85	40,00	1,27	40,00	2,54
		21	42,62	41,52	0,51	41,21	0,64	40,91	0,85	40,61	1,27	40,30	2,54
50	15	14,27	41,29	0,42	41,91	0,50	42,53	0,63	43,14	0,84	43,76	1,26	
	17	34,91	43,14	0,42	43,45	0,50	43,76	0,63	44,07	0,84	44,38	1,26	
	19	37,91	45,00	0,42	45,00	0,50	45,00	0,63	45,00	0,84	45,00	1,26	
	21	40,83	46,79	0,42	46,49	0,50	46,20	0,63	45,90	0,84	45,60	1,26	

EWBT= Entering Air Wet Bulb Temperature (°C)

LWT= Leaving Water Temperature (°C)

WT= Water Flow (l/s)

WATER VOLUMES

MODEL	ENTERING WATER TEMPERATURE °C			15		20		25		30		35	
	CONDENSING	EWBT °C	COOLING CAPACITY KW	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s	LWT °C	WATER FLOW L/s
	TEMP. °C												
UCWZ 1502 - ECVZ 1502	35	15	44,78	28,19	1,05	28,79	1,57	29,40	3,14	-	-	-	-
		17	48,44	29,09	1,05	29,39	1,57	29,70	3,14	-	-	-	-
		19	52,03	30,00	1,05	30,00	1,57	30,00	3,14	-	-	-	-
		21	55,74	30,92	1,05	30,61	1,57	30,31	3,14	-	-	-	-
	40	15	42,94	32,58	0,78	33,19	1,04	33,79	1,55	34,40	3,11	-	-
		17	46,60	33,80	0,78	34,10	1,04	34,40	1,55	34,70	3,11	-	-
		19	50,20	35,00	0,78	35,00	1,04	35,00	1,55	35,00	3,11	-	-
		21	53,87	36,22	0,78	35,91	1,04	35,61	1,55	35,30	3,11	-	-
	45	15	40,95	36,93	0,62	37,54	0,77	38,16	1,03	38,77	1,54	39,39	3,08
		17	44,59	38,45	0,62	38,76	0,77	39,07	1,03	39,38	1,54	39,69	3,08
		19	48,26	40,00	0,62	40,00	0,77	40,00	1,03	40,00	1,54	40,00	3,08
		21	51,93	41,52	0,62	41,22	0,77	40,91	1,03	40,61	1,54	40,30	3,08
50	15	38,87	41,27	0,51	41,89	0,61	42,52	0,76	43,14	1,01	43,76	1,52	
	17	42,54	43,14	0,51	43,45	0,61	43,76	0,76	44,07	1,01	44,38	1,52	
	19	46,19	45,00	0,51	45,00	0,61	45,00	0,76	45,00	1,01	45,00	1,52	
	21	49,75	46,81	0,51	46,51	0,61	46,21	0,76	45,90	1,01	45,60	1,52	
UCWZ 2002 - ECVZ 2002	35	15	63,15	28,19	1,48	28,79	2,23	29,40	4,45	-	-	-	-
		17	68,31	29,09	1,48	29,39	2,23	29,70	4,45	-	-	-	-
		19	73,39	30,00	1,48	30,00	2,23	30,00	4,45	-	-	-	-
		21	78,61	30,91	1,48	30,61	2,23	30,30	4,45	-	-	-	-
	40	15	60,57	32,59	1,10	33,20	1,47	33,80	2,20	34,40	4,41	-	-
		17	65,73	33,80	1,10	34,10	1,47	34,40	2,20	34,70	4,41	-	-
		19	70,80	35,00	1,10	35,00	1,47	35,00	2,20	35,00	4,41	-	-
		21	75,97	36,21	1,10	35,91	1,47	35,61	2,20	35,30	4,41	-	-
	45	15	57,76	36,95	0,87	37,56	1,09	38,17	1,46	38,78	2,18	39,39	4,37
		17	62,89	38,46	0,87	38,77	1,09	39,08	1,46	39,39	2,18	39,69	4,37
		19	68,06	40,00	0,87	40,00	1,09	40,00	1,46	40,00	2,18	40,00	4,37
		21	73,25	41,52	0,87	41,21	1,09	40,91	1,46	40,61	2,18	40,30	4,37
50	15	54,82	41,29	0,72	41,91	0,86	42,53	1,08	43,15	1,44	43,76	2,16	
	17	59,99	43,15	0,72	43,46	0,86	43,77	1,08	44,07	1,44	44,38	2,16	
	19	65,14	45,00	0,72	45,00	0,86	45,00	1,08	45,00	1,44	45,00	2,16	
	21	70,16	46,80	0,72	46,50	0,86	46,20	1,08	45,90	1,44	45,60	2,16	
UCWZ 2402 - ECVZ 2402	35	15	72,25	28,19	1,69	28,79	2,54	29,40	5,08	-	-	-	-
		17	78,15	29,09	1,69	29,39	2,54	29,70	5,08	-	-	-	-
		19	83,96	30,00	1,69	30,00	2,54	30,00	5,08	-	-	-	-
		21	89,94	30,92	1,69	30,61	2,54	30,31	5,08	-	-	-	-
	40	15	69,29	32,59	1,26	33,19	1,68	33,79	2,51	34,40	5,03	-	-
		17	75,20	33,80	1,26	34,10	1,68	34,40	2,51	34,70	5,03	-	-
		19	81,00	35,00	1,26	35,00	1,68	35,00	2,51	35,00	5,03	-	-
		21	86,92	36,21	1,26	35,91	1,68	35,61	2,51	35,30	5,03	-	-
	45	15	66,08	36,93	1,00	37,55	1,24	38,16	1,66	38,77	2,49	39,39	4,98
		17	71,95	38,46	1,00	38,77	1,24	39,08	1,66	39,38	2,49	39,69	4,98
		19	77,86	40,00	1,00	40,00	1,24	40,00	1,66	40,00	2,49	40,00	4,98
		21	83,80	41,52	1,00	41,22	1,24	40,91	1,66	40,61	2,49	40,30	4,98
50	15	27,52	41,28	0,82	41,90	0,98	42,52	1,23	43,14	1,64	43,76	2,46	
	17	68,63	43,14	0,82	43,45	0,98	43,76	1,23	44,07	1,64	44,38	2,46	
	19	74,53	45,00	0,82	45,00	0,98	45,00	1,23	45,00	1,64	45,00	2,46	
	21	80,27	46,80	0,82	46,50	0,98	46,20	1,23	45,90	1,64	45,60	2,46	

EWBT= Entering Air Wet Bulb Temperature (°C)

LWT= Leaving Water Temperature (°C)

WT= Water Flow (l/s)

WATER REGULATION PRESSURESTAT VALVE

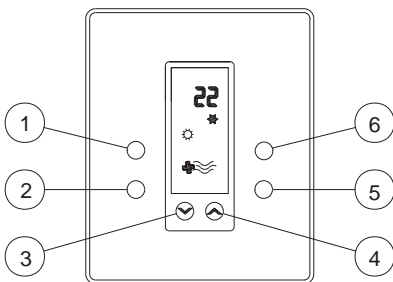
MODEL	201	271	351	401	501	701	721	751	1001	1201	1002	1402	1502	2002	2402
Size	3/8"	3/8"	1/2"	1/2"	3/4"	3/4"	3/4"	1"	1"	1"	3/4"	3/4"	3/4"	1"	1"
Quantity	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2

QUICK-FIT CONNECTIONS AND 407C BASE REFRIGERANT CHARGE

Standard UCWZ units are shipped with a dry air charge. When the units are fitted with liquid and gas line connections fitted with quick-fit valves, they are shipped with a base refrigerant charge.

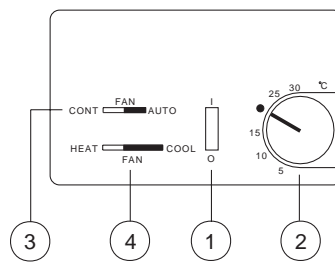
THERMOSTAT

In order to control equipment functions, all models include an environment thermostat for one or two-stage cooling and one or two-stage heating.



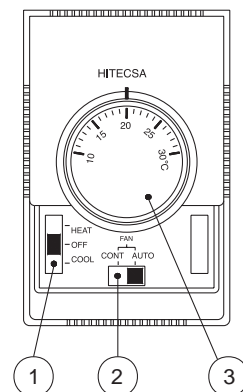
DSL700 FUNCTIONS

1. Mode.
2. Ventilation.
3. ☑ Temperature reduction.
4. ☒ Temperature increase.
5. Day/night set point (not useable).
6. Exterior temperature.
(only with an external probe, as an option).



RTR 7007 FUNCTIONS

1. Start/Stop selector.
2. Temperature selector.
3. Ventilation selector.
4. Cool/heat selector.



T8376B FUNCTIONS

1. Function selector (cool/stop/heat).
2. Ventilation selection.
3. Temperature selector.

VARIATIONS TO STANDARD PRODUCTIONS

- Without compressor.
- Without electrical board.
- Other electrical power supplies.
- For other special operations, please consult.



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