

“
Perfect integration,
*the cassettes adapt to **aesthetic,***
financial and material constraints”



Nominal Cooling capacity : 1.5 to 8.7 kW
 Nominal heating capacity : 1.3 to 11.6 kW



USE

MELODY 2 cassette is a non-independent terminal air conditioning unit installed in suspended ceilings which combines low cost installation and operating advantages

of central hot/chilled water production with individual temperature controls in each room.

RANGE

The MELODY2 cassette type fan coil unit range consists of 6 sizes covering a range of air flow from 360 à 1450 m³/h which meet the most stringent sound level requirements.

2 models:

- Compact cassette 600 x 600, type 61 - 62 - 63
- Large cassette 900 x 900, type 92 - 93 - 94.

The MELODY 2 cassettes are available in 3 versions:

- 2 pipe system, heating or cooling operation
- 2 pipe + 2 wire system, cooling cooling + electrical heating or heating/cooling + electrical heating
- 4 pipe system, cooling and heating operation.

The MELODY 2 cassettes are fitted with a 3-speed motor.

OPERATING PRINCIPLE

The fan takes the air from the room through a grille.

Filtered to be purified, dehumidified, heated or refrigerated through a chilled or hot water exchanger coil, this air is then

discharged into the room to be air conditioned through 4 directional louvres so as to obtain a maximum increase of the air stream and ensure the diffusion by Coanda effect.

RANGE

Recovery/Discharge grille

- Fits perfectly within the suspended ceiling tile dimensions.
- White color.
- The manual deflectors are adjustable (3 positions) allowing homogeneous air distribution throughout the room.
- Possibility of closing one or two discharge deflectors with the grille.

Water coil (2-pipe or 4-pipe system)

- Galvanized sheet metal.
- Copper tubes, aluminum fins.
- Air vent and partial drain.
- Nominal pressure: 14bar.
- Minimum water inlet temperature : 5 °C.
- Maximum water outlet temperature : 70 °C in 2 pipe and 80 °C in 4 pipes.

Electrical heater (system 2 pipe + electrical)

- Heating element, stainless steel tubes, inserted in the finned block
- 2 temperature limiter thermostats (1 auto + 1 manual).

Condensates drain pan

- A condensate drain pan in expanded polystyrene, covered with a waterproof film.
- Recovery is provided by a draining pump equipped with a safety float and mounted on anti-vibration mounts.
- The auxiliary pan is supplied as an accessory to recover the valve condensates.

Fan motor assembly

AC Motor

- 3-speeds motor.
- Closed type, with protected shaft.
 - Permanent capacitor in the electrical box.
 - Automatic open thermal protection in series.
 - Resilient mounts.
 - Supply 230 V / 1 ph / 50 Hz
 - Reduced consumption.

Fan

- Balanced centrifugal impeller with profiled blades.
- Polymer impeller.

Air filter

- Located on the detachable grille, easy to remove without dismantling.
- Washable filter made of polypropylene with efficiency EU1 regarding EN13779.

Casing

- Galvanized sheet metal.
- Thermal and acoustic insulation of the internal surfaces.
- Pre-cut (Ø 70 mm for size 600 and Ø 100 for size 900) Pre-cut Ø 150 mm on the side for air discharge in adjacent room.

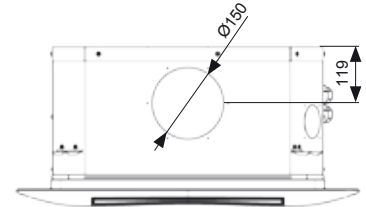
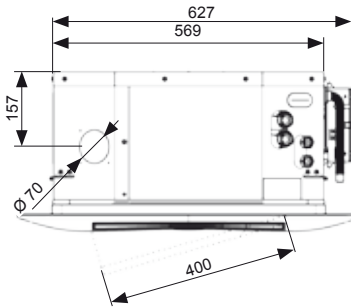
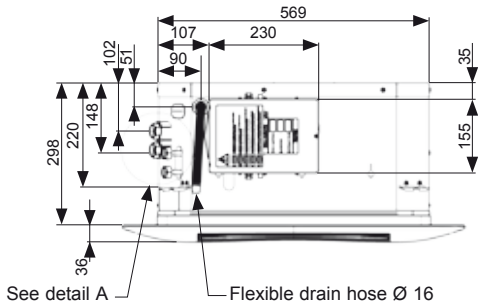
Electrical box

All units are equipped with a control box containing the terminal blocks. The box is positioned on the outside of the unit with a fuse for unit and control protection. The control box panel can easily be opened by simply removing one fixing screw. For wiring connection details, please refer to the appropriate wiring diagrams

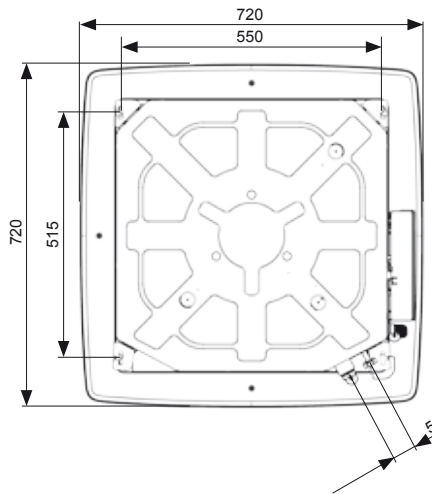
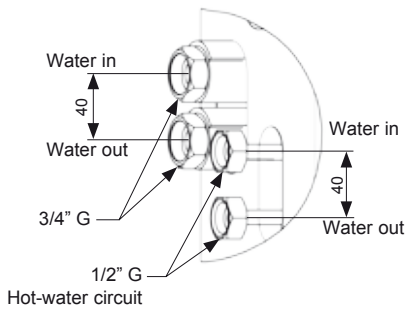
DIMENSIONS (MM)

Size 600

Unit without valves

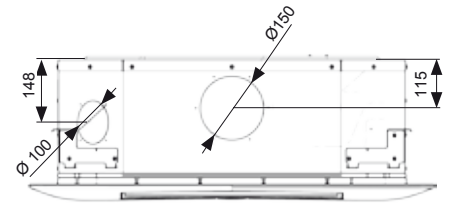
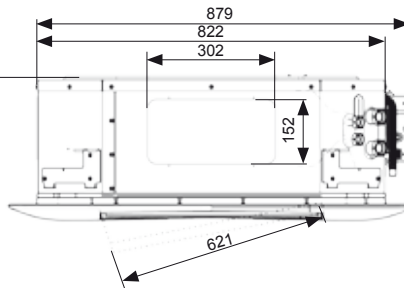
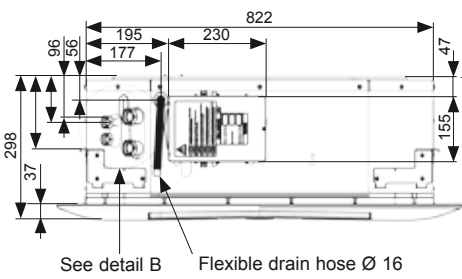


Detail A

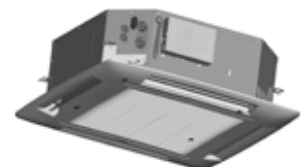
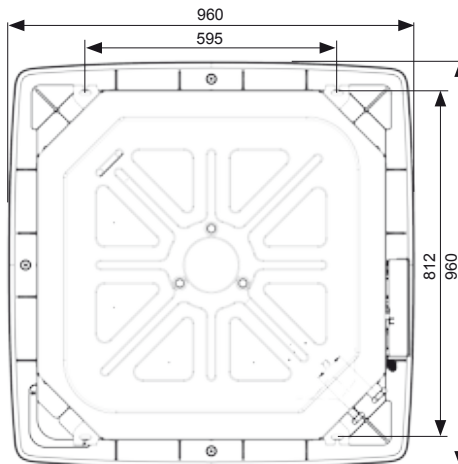
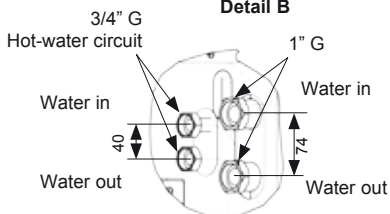


Size 900

Unit without valves



Detail B



PERFORMANCES

2 pipe

Size	Speed	Air flow m ³ /h	Heating capacity W	Pressure Drop kPa	Cooling Capacity		Pressure Drop kPa	Lw dB(A)	LP dB(A)*	NR*	AC motor	
					Total W	Sensible W					EUROVENT	EUROVENT
											FCEER Class	FCCOP Class
61	1	660	3 200	10.9	2 390	2 010	11.1	49	40	35	D	D
	2	450	2 500	5.6	1 780	1 500	6.5	40	31	26		
	3	360	2 200	4.0	1 550	1 300	4.9	36	27	22		
62	1	735	4 650	11.1	4 000	3 100	11.0	52	43	38	C	C
	2	505	3 720	5.2	2 900	2 200	6.2	49	40	35		
	3	320	2 330	1.9	1 900	1 410	2.9	40	31	26		
63	1	900	6 200	16.2	4 700	3 700	14.7	57	48	43	D	D
	2	625	4 600	8.1	3 500	2 700	8.6	48	39	34		
	3	485	3 700	5	2 850	2 100	6	42	33	28		
92	1	980	8 110	18.1	6 300	4 490	23.3	47	38	33	B	C
	2	720	6 000	10.1	4 500	3 370	13.6	40	31	26		
	3	530	4 500	6.2	3 400	2 530	8.7	34	25	20		
93	1	1160	10 000	10.5	7 200	5 500	11.6	53	44	39	C	C
	2	825	7 400	6.6	5 500	4 100	7.0	46	37	32		
	3	500	4 600	3.3	3 700	2 700	3.4	37	28	23		
94	1	1450	11 600	18	8 700	6 400	19.3	59	50	45	C	C
	2	1080	9 300	11.1	6 600	4 850	11.6	52	43	38		
	3	600	5 200	4.8	4 050	3 000	4.7	40	31	26		

4 pipe

Size	Speed	Air flow m ³ /h	Heating capacity W	Pressure Drop kPa	Cooling Capacity		Pressure Drop kPa	Lw dB(A)	LP dB(A)	NR	AC motor	
					Total W	Sensible W					EUROVENT	EUROVENT
											FCEER Class	FCCOP Class
61	1	660	1 900	31.4	2 002	1 870	13.7	49	40	35	E	E
	2	450	1 440	21.1	1 510	1 389	8.2	40	31	26		
	3	360	1 240	17.0	1 330	1 190	6.6	36	27	22		
62	1	735	6 370	25.5	3 500	2 700	10.1	52	43	38	C	B
	2	505	5 100	16.1	2 700	2 100	6.6	49	40	35		
	3	320	3 600	7.8	2 000	1 500	4.0	40	31	26		
63	1	900	6 800	29.2	4100	3300	13.1	57	48	43	D	C
	2	625	5 800	21.0	3 250	2 600	8.9	48	39	34		
	3	485	5 000	15.4	2 600	2 050	6.2	42	33	28		
93	1	1160	11 500	13.6	6 700	5 100	23.2	53	44	39	C	B
	2	825	8 900	8.9	5 000	3 800	14.1	46	37	32		
	3	500	6 000	4.6	3 000	2 200	5.9	37	28	23		
94	1	1450	14 500	19.9	8 100	6210	32.7	59	50	45	C	C
	2	1080	11 500	13.6	6 050	4 550	23.8	52	43	38		
		600	7 300	6.4	3 380	2 360	8.9	40	31	26		

EUROVENT conditions

Cooling mode : (2 pipes & 4 pipes) : Entering air temperature : 27°C/19°C_{BH}, entering/leaving water temperature : 7°C/12°C

Heating mode : (2 pipes) : Entering air temperature : 20°C, entering water temperature: 50°C, water flow as cooling mode

Heating mode : (4 pipes) : Entering air temperature : 20°C, entering/leaving water temperature : 70°C/60°C

*Acoustic pressure level and NR values are based on a hypothetical sound attenuation of the room of 9 dB(A)

TECHNICAL AND ELECTRICAL CHARACTERISTICS

Coil content (litres)

		61	62	63	92	93	94
Standard 2-pipe systeme coil		0.55	1.1	1.1	1.6	2.4	2.4
4-pipe system coil	Cooling	0.4	1.1	1.1		2.4	2.4
	Heating	0.1	0.6	0.6		1.2	1.2

Supply pipe diameter

		61	62	63	92	93	94
Standard 2-pipe systeme coil		G 3/4"	G 3/4"	G 3/4"	G 1"	G 1"	G 1"
4-pipe system coil	Cooling	G 3/4"	G 3/4"	G 3/4"		G 1"	G 1"
	Heating	G 1/2"	G 1/2"	G 1/2"		G 3/4"	G 3/4"

Electrical characteristics (230 V - 1 ph - 50 Hz / 60 Hz) – Fan-motor AC

	Speed	61 AC	62 AC	63 AC	92 AC	93 AC	94 AC
Power input (W)	1	58	54	94	63	85	123
	2	35	32	55	39	59	90
	3	25	16	35	27	33	43
Absorbed current (A)	1	0.27	0.24	0.41	0.3	0.46	0.63
	2	0.17	0.14	0.24	0.17	0.27	0.41
	3	0.12	0.07	0.16	0.12	0.14	0.19

Electrical characteristics (230 V - 1 ph - 50 Hz) – Electrical heater

	61	62	63	92	93	94
Electrical power	1500	2500	2500	3000	3000	3000
Absorbed current (A)	5.9	9.4	9.4	11.3	11.3	11.3



COOLING CAPACITIES IN KW, 2 PIPE

EAT	EWT	ΔT	Size Speed	61 AC			62 AC			63 AC			92 AC			93 AC			94 AC			
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
23°DB/17°CBW	5	3	Total	2.81	2.16	1.89	4.27	3.11	2.08	5.06	3.80	3.06	6.93	5.14	3.92	7.88	6.03	4.04	9.10	6.94	4.34	
			Sensible	1.97	1.50	1.31	2.93	2.11	1.40	3.50	2.60	2.08	4.70	3.48	2.63	5.28	4.00	2.64	6.14	4.66	2.87	
	5	5	Total	2.18	1.60	1.39	3.71	2.67	1.72	4.36	3.22	2.55	5.71	4.15	3.13	6.69	5.06	3.40	8.05	6.09	3.76	
			Sensible	1.70	1.26	1.09	2.67	1.90	1.23	3.17	2.32	1.84	4.13	3.02	2.26	4.73	3.55	2.34	5.66	4.27	2.60	
	5	7	Total	1.32	0.87	0.75	3.09	2.14	1.33	3.55	2.46	1.86	4.40	3.00	2.24	5.01	3.61	2.38	6.73	4.96	2.94	
			Sensible	1.28	0.87	0.75	2.35	1.64	1.04	2.78	1.95	1.50	3.55	2.50	1.86	3.98	2.90	1.88	5.08	3.77	2.23	
	5	9	Total	0.80	0.63	0.59	2.32	1.54	0.93	2.46	1.59	1.16	3.12	2.16	1.63	3.13	2.24	1.72	5.30	3.70	2.04	
			Sensible	0.80	0.63	0.59	1.97	1.34	0.83	2.20	1.49	1.11	2.82	2.00	1.51	3.01	2.15	1.57	4.42	3.18	1.81	
	7	3	Total	2.27	1.73	1.52	3.50	2.54	1.70	4.14	3.11	2.50	5.63	4.18	3.17	6.47	4.95	3.34	7.51	5.73	3.58	
			Sensible	1.73	1.31	1.14	2.58	1.85	1.23	3.08	2.28	1.82	4.10	3.04	2.28	4.63	3.50	2.30	5.42	4.11	2.52	
	7	5	Total	1.53	1.09	0.94	2.95	2.09	1.34	3.45	2.52	1.95	4.42	3.19	2.35	5.13	3.85	2.58	6.33	4.75	2.91	
			Sensible	1.42	1.02	0.88	2.31	1.63	1.05	2.74	2.00	1.55	3.56	2.60	1.92	4.04	3.01	1.97	4.90	3.68	2.22	
	7	7	Total	0.99	0.66	0.60	2.25	1.54	0.93	2.52	1.72	1.26	2.26	2.24	1.68	3.53	2.49	1.70	5.05	3.65	2.06	
			Sensible	0.99	0.66	0.60	1.95	1.35	0.84	2.26	1.57	1.19	2.96	2.06	1.54	3.28	2.35	1.57	4.32	3.17	1.82	
	7	9	Total	0.62	0.50	0.47	1.67	1.10	0.67	1.73	1.12	0.87	2.30	1.60	1.22	2.20	1.73	1.34	3.95	2.68	1.54	
			Sensible	0.62	0.50	0.47	1.58	1.06	0.66	1.71	1.12	0.87	2.25	1.59	1.21	2.20	1.73	1.30	3.69	2.58	1.49	
	25°DB/19°CBW	9	3	Total	1.67	1.26	1.10	2.74	1.98	1.30	3.24	2.41	1.93	4.34	3.20	2.42	4.96	3.78	2.56	5.81	4.41	2.75
				Sensible	1.49	1.12	0.97	2.23	1.59	1.04	2.67	1.96	1.56	3.54	2.61	1.95	3.97	2.98	1.96	4.68	3.53	2.15
		9	5	Total	1.14	0.80	0.69	2.17	1.49	0.93	2.53	1.76	1.34	3.31	2.35	1.72	3.67	2.70	1.81	4.70	3.47	2.06
				Sensible	1.14	0.80	0.69	1.94	1.34	0.85	2.30	1.61	1.25	3.05	2.18	1.59	3.37	2.49	1.62	4.17	3.10	1.83
		9	7	Total	0.66	0.50	0.47	1.62	1.09	0.67	1.81	1.21	0.89	2.34	1.64	1.24	2.54	1.77	1.31	3.79	2.69	1.51
				Sensible	0.66	0.50	0.47	1.57	1.06	0.66	1.78	1.21	0.89	2.30	1.64	1.23	2.54	1.77	1.29	3.62	2.61	1.47
		9	9	Total	0.45	0.36	0.35	1.18	0.79	0.48	1.15	0.80	0.61	1.62	1.13	0.92	1.57	1.26	1.01	2.88	1.92	1.13
				Sensible	0.45	0.36	0.35	1.18	0.79	0.48	1.15	0.80	0.61	1.62	1.13	0.92	1.57	1.26	1.01	2.88	1.92	1.13
11		3	Total	1.20	0.88	0.76	1.98	1.41	0.90	2.36	1.72	1.36	3.20	2.34	1.76	3.55	2.68	1.80	4.24	3.18	1.94	
			Sensible	1.20	0.88	0.76	1.87	1.33	0.85	2.24	1.63	1.29	3.03	2.22	1.66	3.34	2.49	1.63	3.97	2.98	1.79	
11		5	Total	0.85	0.58	0.50	1.55	1.06	0.65	1.83	1.26	0.96	2.45	1.69	1.26	2.71	1.97	1.29	3.55	2.59	1.49	
			Sensible	0.85	0.58	0.50	1.53	1.06	0.65	1.82	1.26	0.96	2.45	1.69	1.26	2.71	1.97	1.29	3.49	2.56	1.48	
11		7	Total	0.45	0.36	0.34	1.18	0.78	0.48	1.26	0.82	0.63	1.66	1.16	0.88	1.61	1.27	0.97	2.83	1.94	1.11	
			Sensible	0.45	0.36	0.34	1.18	0.78	0.48	1.26	0.82	0.63	1.66	1.16	0.88	1.61	1.27	0.97	2.83	1.94	1.11	
11		9	Total	0.28	0.24	0.23	0.76	0.50	0.30	0.67	0.47	0.37	0.97	0.76	0.63	0.98	0.81	0.68	1.81	1.24	0.74	
			Sensible	0.28	0.24	0.23	0.76	0.50	0.30	0.67	0.47	0.37	0.97	0.76	0.63	0.98	0.81	0.68	1.81	1.24	0.74	
13		3	Total	0.94	0.68	0.58	1.50	1.03	0.65	1.80	1.29	0.98	2.43	1.77	1.31	2.69	1.99	1.32	3.26	2.42	1.43	
			Sensible	0.94	0.68	0.58	1.50	1.03	0.65	1.80	1.29	0.98	2.43	1.77	1.31	2.69	1.99	1.32	3.26	2.42	1.43	
13		5	Total	0.53	0.37	0.34	1.14	0.77	0.48	1.31	0.89	0.66	1.69	1.19	0.90	1.91	1.34	0.94	2.69	1.93	1.08	
			Sensible	0.53	0.37	0.34	1.14	0.77	0.48	1.31	0.89	0.66	1.69	1.19	0.90	1.91	1.34	0.94	2.69	1.93	1.08	
13		7	Total	0.28	0.23	0.22	0.74	0.50	0.30	0.69	0.48	0.37	0.98	0.70	0.58	0.97	0.79	0.64	1.81	1.22	0.72	
			Sensible	0.28	0.23	0.22	0.74	0.50	0.30	0.69	0.48	0.37	0.98	0.70	0.58	0.97	0.79	0.64	1.81	1.22	0.72	
13		9	Total	0.13	0.12	0.11	0.31	0.20	0.12	0.24	0.18	0.15	0.50	0.39	0.33	0.43	0.38	0.34	0.75	0.50	0.32	
			Sensible	0.13	0.12	0.11	0.31	0.20	0.12	0.24	0.18	0.15	0.50	0.39	0.33	0.43	0.38	0.34	0.75	0.50	0.32	
25°DB/19°CBW	5	3	Total	3.55	2.74	2.41	5.34	3.89	2.61	6.35	4.76	3.85	8.78	6.53	4.96	9.84	7.54	5.04	11.31	8.64	5.40	
			Sensible	2.21	1.69	1.48	3.27	2.37	1.58	3.91	2.90	2.34	5.31	3.94	2.98	5.92	4.50	2.98	6.85	5.21	3.22	
	5	5	Total	3.01	2.26	1.98	4.76	3.45	2.27	5.62	4.19	3.35	7.46	5.49	4.15	8.79	6.70	4.51	10.33	7.85	4.89	
			Sensible	1.97	1.48	1.29	3.02	2.17	1.42	3.60	2.66	2.12	4.73	3.48	2.61	5.44	4.11	2.73	6.41	4.86	2.98	
	5	7	Total	2.21	1.53	1.32	4.14	2.93	1.88	4.82	3.52	2.71	6.08	4.37	3.20	7.30	5.47	3.65	9.09	6.83	4.18	
			Sensible	1.65	1.19	1.02	2.74	1.93	1.24	3.23	2.35	1.83	4.12	2.99	2.20	4.80	3.57	2.34	5.87	4.41	2.67	
	5	9	Total	1.14	0.79	0.73	3.40	2.35	1.42	3.85	2.62	1.92	4.57	3.09	2.31	5.20	3.58	2.39	7.54	5.50	3.17	
			Sensible	1.14	0.79	0.73	2.39	1.67	1.04	2.79	1.94	1.47	3.49	2.45	1.83	3.92	2.79	1.82	5.23	3.86	2.24	
	7	3	Total	3.01	2.32	2.04	4.55	3.33	2.23	5.41	4.06	3.28	7.43	5.52	4.21	8.45	6.48	4.35	9.72	7.43	4.65	
			Sensible	1.97	1.51	1.32	2.92	2.11	1.41	3.50	2.59	2.08	4.70	3.48	2.63	5.29	4.01	2.65	6.13	4.66	2.87	
	7	5	Total	2.40	1.78	1.56	3.96	2.86	1.85	4.66	3.46	2.76	6.12	4.47	3.37	7.25	5.52	3.72	8.62	6.54	4.07	
			Sensible	1.72	1.29	1.12	2.67	1.91	1.24	3.17	2.33	1.86	4.14	3.03	2.28	4.77	3.59	2.37	5.66	4.28	2.62	
	7	7	Total	1.46	0.96	0.83	3.33	2.31	1.46	3.83	2.72	2.06	4.70	3.27	2.39	5.54	4.06	2.70	7.20	5.35	3.22	
			Sensible	1.34	0.93	0.80	2.38	1.65	1.06	2.80	1.99	1.54	3.55	2.54	1.87	4.07	2.99	1.94	5.08	3.80	2.26	
	7	9	Total	0.84	0.65	0.60	2.49	1.67	0.99	2.68	1.75	1.23	3.25	2.28	1.72	3.43	2.33	1.79	5.60	4.01	2.17	
			Sensible	0.84	0.65	0.60	1.99	1.37	0.85	2.26	1.54	1.14	2.83	2.02	1.52	3.14	2.19	1.56	4.42	3.23	1.82	
	9	3	Total	2.44	1.87	1.65	3.73	2.72	1.82	4.41	3.32	2.68	6.02	4.47	3.41	6.96	5.34	3.60	8.03	6.13	3.85	
			Sensible	1.74	1.32	1.15	2.57	1.85	1.23	3.08	2.28	1.82	4.10	3.04	2.29	4.64	3.51	2.32	5.41	4.11	2.52	
	9	5	Total	1.71	1.22	1.06	3.15	2.26	1.44	3.68	2.71	2.13	4.71	3.41	2.56	5.55	4.20	2.83	6.76	5.10	3.16	
			Sensible	1.46	1.07	0.92	2.31	1.65	1.06	2.75	2.01	1.58	3.56	2.60	1.94	4.08	3.05	2.00	4.90	3.69	2.24	
	9	7	Total	1.04	0.69	0.61	2.40	1.65	0.99	2.73	1.86	1.38	3.43	2.35	1.77	3.82	2.71	1.80	5.36	3.90	2.24	
			Sensible	1.04	0.69	0.61	1.96															



COOLING CAPACITIES IN kW, 2 PIPE

EAT	EWT	ΔT	Size Speed	61 AC			62 AC			63 AC			92 AC			93 AC			94 AC		
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
				Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
27°DB/19°CWB	5	3	Total	3.55	2.74	2.41	5.33	3.89	2.61	6.35	4.75	3.84	8.77	6.52	4.96	9.84	7.53	5.04	11.30	8.64	5.40
			Sensible	2.49	1.91	1.66	3.67	2.65	1.76	4.40	3.26	2.62	5.94	4.41	3.32	6.61	5.01	3.30	7.67	5.83	3.59
	5	5	Total	3.00	2.26	1.98	4.79	3.46	2.28	5.66	4.21	3.37	7.54	5.55	4.19	8.78	6.69	4.51	10.32	7.85	4.88
			Sensible	2.26	1.70	1.48	3.42	2.46	1.61	4.09	3.01	2.40	5.38	3.97	2.97	6.13	4.62	3.05	7.23	5.47	3.35
	5	7	Total	2.20	1.50	1.29	4.22	2.99	1.91	4.92	3.60	2.78	6.25	4.52	3.33	7.32	5.48	3.68	9.08	6.83	4.18
			Sensible	1.93	1.37	1.18	3.15	2.23	1.43	3.73	2.72	2.11	4.81	3.51	2.59	5.50	4.09	2.68	6.69	5.03	3.04
	5	9	Total	1.49	1.00	0.88	3.53	2.44	1.49	4.04	2.77	2.06	5.03	3.43	2.57	5.53	3.97	2.63	7.74	5.67	3.29
			Sensible	1.49	1.00	0.88	2.81	1.96	1.23	3.31	2.31	1.77	4.28	2.98	2.23	4.71	3.42	2.22	6.10	4.52	2.64
	7	3	Total	3.01	2.32	2.04	4.54	3.32	2.23	5.41	4.05	3.28	7.44	5.52	4.21	8.44	6.47	4.35	9.71	7.42	4.65
			Sensible	2.26	1.72	1.50	3.32	2.40	1.59	3.98	2.94	2.36	5.34	3.95	2.98	5.98	4.52	2.97	6.95	5.28	3.24
	7	5	Total	2.40	1.80	1.55	4.00	2.90	1.90	4.70	3.50	2.85	6.30	4.50	3.40	7.20	5.50	3.70	8.61	6.60	4.05
			Sensible	2.01	1.49	1.31	3.10	2.20	1.41	3.70	2.70	2.10	4.80	3.60	2.70	5.50	4.10	2.70	6.48	4.85	3.00
	7	7	Total	1.69	1.16	1.00	3.44	2.39	1.51	3.97	2.84	2.16	5.04	3.60	2.63	5.74	4.23	2.83	7.47	5.49	3.30
			Sensible	1.65	1.16	1.00	2.79	1.94	1.24	3.30	2.36	1.83	4.29	3.11	2.28	4.81	3.55	2.31	5.94	4.44	2.65
	7	9	Total	1.21	0.81	0.74	2.72	1.85	1.12	3.05	2.08	1.52	3.94	2.74	2.06	4.27	3.02	2.07	6.09	4.39	2.46
			Sensible	1.21	0.81	0.74	2.41	1.67	1.03	2.79	1.94	1.46	3.65	2.58	1.93	4.06	2.90	1.95	5.35	3.93	2.25
	9	3	Total	2.44	1.87	1.64	3.77	2.74	1.83	4.47	3.35	2.70	6.11	4.53	3.45	6.95	5.33	3.60	8.01	6.12	3.84
			Sensible	2.02	1.53	1.34	2.97	2.13	1.41	3.57	2.63	2.10	4.76	3.52	2.65	5.34	4.02	2.64	6.23	4.72	2.89
	9	5	Total	1.82	1.32	1.14	3.24	2.33	1.49	3.81	2.80	2.21	5.00	3.63	2.74	5.70	4.31	3.02	6.90	5.19	3.20
			Sensible	1.73	1.27	1.10	2.72	1.94	1.24	3.24	2.36	1.87	4.28	3.13	2.35	4.80	3.58	2.34	5.75	4.32	2.61
	9	7	Total	1.37	0.95	0.82	2.63	1.81	1.12	3.08	2.12	1.61	4.02	2.80	2.07	4.42	3.22	2.13	5.79	4.24	2.48
			Sensible	1.37	0.95	0.82	2.39	1.66	1.04	2.86	1.98	1.53	3.77	2.65	1.96	4.17	3.05	2.00	5.23	3.87	2.28
	9	9	Total	0.90	0.66	0.61	2.12	1.42	0.87	2.37	1.59	1.17	3.06	2.15	1.62	3.34	2.33	1.69	4.91	3.50	1.96
			Sensible	0.90	0.66	0.61	2.04	1.39	0.86	2.33	1.59	1.17	3.01	2.14	1.61	3.34	2.33	1.68	4.68	3.39	1.19
11	3	Total	1.83	1.37	1.19	2.99	2.16	1.44	3.55	2.64	2.12	4.81	3.57	2.70	5.41	4.14	2.80	6.29	4.78	2.98	
		Sensible	1.76	1.31	1.14	2.63	1.88	1.24	3.15	2.31	1.84	4.22	3.12	2.34	4.69	3.52	2.30	5.51	4.16	2.52	
11	5	Total	1.46	1.05	0.91	2.49	1.73	1.10	2.94	2.12	1.62	3.95	2.87	2.12	4.38	3.25	2.18	5.37	3.99	2.40	
		Sensible	1.46	1.05	0.91	2.35	1.63	1.04	2.81	2.02	1.56	3.77	2.75	2.02	4.18	3.10	2.03	5.05	3.77	2.25	
11	7	Total	1.09	0.73	0.63	2.04	1.40	0.85	2.38	1.64	1.24	3.18	2.19	1.64	3.52	2.54	1.67	4.67	3.39	1.94	
		Sensible	1.09	0.73	0.63	2.00	1.38	0.85	2.36	1.64	1.24	3.16	2.19	1.64	3.52	2.54	1.67	4.56	3.34	1.92	
11	9	Total	0.65	0.51	0.48	1.66	1.10	0.68	1.83	1.20	0.90	2.38	1.67	1.26	2.46	1.79	1.36	3.95	2.76	1.56	
		Sensible	0.65	0.51	0.48	1.66	1.10	0.68	1.83	1.20	0.90	2.38	1.67	1.26	2.46	1.79	1.36	3.95	2.76	1.56	
13	3	Total	1.48	1.09	0.94	2.29	1.63	1.05	2.75	2.01	1.59	3.78	2.78	2.09	4.14	3.10	2.07	4.89	3.66	2.20	
		Sensible	1.48	1.09	0.94	2.26	1.60	1.03	2.73	1.98	1.57	3.71	2.73	2.05	4.07	3.04	1.99	4.82	3.60	2.15	
13	5	Total	1.19	0.85	0.73	1.98	1.35	0.85	2.37	1.66	1.27	3.18	2.30	1.66	3.53	2.60	1.72	4.37	3.23	1.90	
		Sensible	1.19	0.85	0.73	1.98	1.35	0.85	2.37	1.66	1.27	3.18	2.30	1.66	3.53	2.60	1.72	4.37	3.23	1.90	
13	7	Total	0.77	0.52	0.48	1.62	1.10	0.67	1.86	1.27	0.94	2.41	1.70	1.28	2.73	1.93	1.33	3.79	2.72	1.53	
		Sensible	0.77	0.52	0.48	1.62	1.10	0.67	1.86	1.27	0.94	2.41	1.70	1.28	2.73	1.93	1.33	3.79	2.72	1.53	
13	9	Total	0.46	0.38	0.35	1.24	0.82	0.50	1.27	0.84	0.64	1.70	1.18	0.92	1.64	1.31	1.03	3.02	2.01	1.18	
		Sensible	0.46	0.38	0.35	1.24	0.82	0.50	1.27	0.84	0.64	1.70	1.18	0.92	1.64	1.31	1.03	3.02	2.01	1.18	
29°DB/21°CWB	5	3	Total	4.34	3.36	2.96	6.49	4.72	3.18	7.73	5.80	4.68	10.76	8.01	6.08	11.94	9.14	6.11	13.68	10.46	6.54
			Sensible	2.72	2.09	1.83	4.01	2.90	1.94	4.81	3.57	2.87	6.55	4.87	3.67	7.24	5.50	3.64	8.36	6.37	3.93
	5	5	Total	3.85	2.93	2.57	5.93	4.31	2.88	7.00	5.25	4.22	9.45	7.02	5.32	10.97	8.39	5.64	12.74	9.72	6.07
			Sensible	2.51	1.90	1.66	3.77	2.72	1.80	4.50	3.33	2.67	5.97	4.42	3.33	6.81	5.16	3.42	7.95	6.04	3.72
	5	7	Total	3.17	2.33	2.03	5.31	3.83	2.48	6.24	4.62	3.67	8.13	5.91	4.46	9.68	7.34	4.95	11.60	8.79	5.45
			Sensible	2.24	1.66	1.44	3.51	2.51	1.62	4.17	3.06	2.43	5.41	3.95	2.96	6.25	4.70	3.10	7.46	5.64	3.44
	5	9	Total	2.16	1.39	1.20	4.69	3.28	2.08	5.41	3.90	2.98	6.67	4.73	3.42	7.92	5.85	3.91	10.19	7.62	4.62
			Sensible	1.86	1.29	1.11	3.22	2.26	1.45	3.79	2.74	2.11	4.80	3.47	2.54	5.54	4.08	2.66	6.88	5.16	3.10
	7	3	Total	3.80	2.94	2.60	5.70	4.16	2.80	6.78	5.09	4.12	9.42	7.01	5.33	10.55	8.09	5.43	12.08	9.24	5.80
			Sensible	2.49	1.91	1.67	3.67	2.65	1.77	4.39	3.26	2.62	5.95	4.41	3.33	6.61	5.02	3.31	7.65	5.82	3.59
	7	5	Total	3.26	2.47	2.17	5.11	3.71	2.47	6.03	4.51	3.62	8.07	5.99	4.53	9.47	7.25	4.89	11.05	8.42	5.27
			Sensible	2.28	1.72	1.49	3.42	2.46	1.62	4.08	3.01	2.41	5.38	3.98	2.99	6.16	4.66	3.08	7.22	5.48	3.36
	7	7	Total	2.49	1.78	1.54	4.51	3.24	2.07	5.27	3.88	3.06	6.74	4.87	3.66	7.99	6.03	4.05	9.76	7.37	4.55
			Sensible	1.98	1.45	1.25	3.15	2.25	1.45	3.74	2.74	2.16	4.83	3.52	2.63	5.56	4.16	2.72	6.70	5.05	3.07
	7	9	Total	1.60	1.06	0.92	3.83	2.65	1.64	4.38	3.04	2.29	5.36	3.68	2.73	6.14	4.42	2.91	8.29	6.12	3.63
			Sensible	1.57	1.06	0.92	2.85	1.98	1.26	3.35	2.36	1.82	4.28	3.03	2.25	4.81	3.51	2.27	6.11	4.54	2.69
	9	3	Total	3.23	2.50	2.20	4.86	3.55	2.39	5.78	4.34	3.52	7.98	5.94	4.53	9.06	6.97	4.69	10.38	7.95	5.00
			Sensible	2.26	1.73	1.51	3.32	2.39	1.59	3.98	2.94	2.36	5.34	3.96	2.98	5.98	4.53	2.99	6.94	5.27	3.24
	9	5	Total	2.62	1.97	1.72	4.29	3.10	2.04	5.06	3.76	3.01	6.69	4.92	3.72	7.85	6.00	4.06	9.24	7.03	4.39
			Sensible	2.03	1.52	1.32	3.07	2.20	1.44	3.67	2.70	2.15	4.82	3.55	2.66	5.50	4.14	2.72	6.49	4.91	3.00
	9	7	Total	1.82	1.26	1.09	3.67	2.59	1.64	4.26	3.10	2.37	5.37	3.85	2.81	6.27	4.67	3.14	7.87	5.89	3.58
			Sensible	1.69	1.21	1.04	2.79	1.96	1.26	3.31	2.41	1.86	4.29	3.12	2.30	4.87	3.61	2.35	5.95	4.45	2.67
	9	9	Total	1.28	0.85	0.75	2.88	1.98	1.19	3.28	2.23	1.64	4.20	2.85	2.14	4.54	3.22	2.15	6.46	4.68	2.65
			Sensible	1.28	0.85	0.75	2.43	1.69	1.05	2.86	1.98										

HEATING CAPACITIES IN kW , 2 PIPES

Water flow l/s	Water flow l/h	ΔT	Size Speed	61 AC			62 AC			63 AC			92 AC			93 AC			94 AC		
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
0,06	200	20	Totale	1.70	1.48	1.36	2.07	1.99	1.45	2.36	2.06	1.84	3.09	2.51	2.14	3.21	2.90	2.27	3.31	3.13	2.32
0,13	480	20	Totale	2.17	1.80	1.61	2.97	2.61	1.77	3.49	2.86	2.43	4.38	3.56	2.86	4.99	4.16	2.90	5.11	4.79	3.14
0,21	760	20	Totale	2.37	1.93	1.71	3.37	2.84	1.88	4.02	3.18	2.65	5.02	3.95	3.09	5.94	4.72	3.11	6.31	5.65	3.48
0,29	1040	20	Totale	2.48	1.99	1.76	3.58	2.95	1.93	4.31	3.35	2.76	5.35	4.15	3.19	6.43	4.97	3.19	7.00	6.08	3.63
0,37	1320	20	Totale	2.55	2.03	1.79	3.72	3.02	1.96	4.50	3.45	2.82	5.55	4.26	3.25	6.69	5.10	3.23	7.39	6.31	3.70
0,44	1600	20	Totale	2.59	2.06	1.81	3.80	3.06	1.97	4.61	3.51	2.86	5.66	4.32	3.28	6.84	5.17	3.25	7.63	6.44	3.74
0,52	1880	20	Totale	2.62	2.08	1.82	3.87	3.09	1.99	4.71	3.56	2.89	5.76	4.37	3.31	6.97	5.22	3.27	7.84	6.55	3.78
0,60	2160	20	Totale	2.65	2.09	1.83	3.92	3.11	2.00	4.78	3.60	2.91	5.83	4.41	3.33	7.06	5.26	3.28	7.99	6.63	3.80
0,68	2440	20	Totale	2.67	2.10	1.84	3.96	3.13	2.01	4.84	3.63	2.93	5.88	4.43	3.34	7.13	5.29	3.29	8.11	6.69	3.82
0,76	2720	20	Totale	2.68	2.11	1.85	4.00	3.14	2.01	4.89	3.66	2.95	5.92	4.46	3.36	7.18	5.31	3.30	8.20	6.73	3.83
0,83	3000	20	Totale	2.70	2.12	1.85	4.02	3.15	2.02	4.92	3.67	2.96	5.95	4.47	3.36	7.22	5.33	3.30	8.27	6.77	3.84
0,06	200	30	Totale	2.61	2.26	2.08	3.49	3.05	2.22	3.90	3.18	2.84	5.06	4.11	3.29	4.90	4.43	3.46	4.81	4.78	3.56
0,13	480	30	Totale	3.30	2.72	2.44	4.52	3.95	2.68	5.31	4.33	3.68	6.64	5.39	4.32	7.61	6.33	4.39	7.83	7.31	4.78
0,21	760	30	Totale	3.60	2.91	2.58	5.11	4.29	2.83	6.10	4.81	4.00	7.57	5.96	4.65	9.02	7.14	4.69	9.63	8.58	5.26
0,29	1040	30	Totale	3.75	3.01	2.65	5.42	4.45	2.90	6.53	5.06	4.16	8.07	6.25	4.81	9.72	7.49	4.80	10.62	9.19	5.47
0,37	1320	30	Totale	3.85	3.06	2.69	5.62	4.55	2.95	6.80	5.21	4.25	8.36	6.41	4.89	10.10	7.68	4.86	11.19	9.52	5.58
0,44	1600	30	Totale	3.91	3.10	2.72	5.74	4.60	2.97	6.97	5.30	4.31	8.53	6.50	4.94	10.32	7.78	4.89	11.55	9.72	5.64
0,52	1880	30	Totale	3.96	3.13	2.74	5.84	4.65	2.99	7.11	5.37	4.35	8.67	6.57	4.98	10.50	7.86	4.91	11.84	9.87	5.68
0,60	2160	30	Totale	3.99	3.15	2.76	5.92	4.68	3.00	7.22	5.43	4.39	8.77	6.63	5.01	10.63	7.91	4.93	12.07	9.98	5.72
0,68	2440	30	Totale	4.02	3.17	2.77	5.98	4.71	3.02	7.31	5.47	4.41	8.85	6.67	5.03	10.73	7.96	4.94	12.24	10.07	5.75
0,76	2720	30	Totale	4.05	3.18	2.78	6.03	4.73	3.02	7.37	5.50	4.43	8.91	6.70	5.04	10.81	7.99	4.95	12.38	10.13	5.77
0,83	3000	30	Totale	4.06	3.19	2.79	6.06	4.74	3.03	7.42	5.53	4.45	8.95	6.72	5.06	10.86	8.01	4.96	12.48	10.18	5.78
0,06	200	40	Totale	3.54	3.06	2.81	4.76	4.15	3.02	5.33	4.35	3.87	6.01	5.22	4.48	6.63	5.99	4.68	6.53	6.47	4.83
0,13	480	40	Totale	4.44	3.66	3.28	6.08	5.30	3.59	7.15	5.82	4.94	8.89	7.22	5.78	10.28	8.53	5.89	10.62	9.87	6.45
0,21	760	40	Totale	4.83	3.91	3.46	6.86	5.75	3.79	8.20	6.46	5.36	10.14	7.99	6.23	12.15	9.59	6.28	13.02	11.55	7.07
0,29	1040	40	Totale	5.04	4.03	3.55	7.28	5.96	3.89	8.77	6.78	5.57	10.80	8.36	6.43	13.03	10.03	6.42	14.28	12.32	7.32
0,37	1320	40	Totale	5.16	4.11	3.61	7.54	6.09	3.94	9.13	6.98	5.69	11.19	8.57	6.54	13.54	10.27	6.49	15.04	12.76	7.46
0,44	1600	40	Totale	5.24	4.15	3.64	7.70	6.16	3.97	9.35	7.09	5.76	11.42	8.69	6.60	13.83	10.40	6.53	15.50	13.01	7.54
0,52	1880	40	Totale	5.30	4.19	3.67	7.83	6.22	4.00	9.55	7.19	5.82	11.60	8.79	6.65	14.06	10.50	6.56	15.89	13.21	7.60
0,60	2160	40	Totale	5.35	4.22	3.69	7.93	6.26	4.02	9.68	7.26	5.86	11.73	8.86	6.69	14.23	10.58	6.58	16.18	13.36	7.64
0,68	2440	40	Totale	5.39	4.24	3.70	8.01	6.29	4.03	9.79	7.32	5.90	11.83	8.91	6.72	14.36	10.63	6.60	16.41	13.47	7.68
0,76	2720	40	Totale	5.42	4.26	3.72	8.07	6.32	4.04	9.88	7.37	5.93	11.91	8.96	6.74	14.46	10.67	6.61	16.59	13.55	7.70
0,83	3000	40	Totale	5.44	4.27	3.73	8.12	6.34	4.05	9.94	7.40	5.95	11.96	8.98	6.75	14.53	10.70	6.62	16.72	13.61	7.72
0,06	200	50	Totale	4.49	3.87	3.55	5.60	5.26	3.81	6.34	5.52	4.91	7.60	6.64	5.70	8.39	7.58	5.92	8.29	8.19	6.13
0,13	480	50	Totale	5.60	4.60	4.12	7.67	6.66	4.51	9.01	7.33	6.21	11.14	9.05	7.25	13.00	10.76	7.41	13.46	12.48	8.14
0,21	760	50	Totale	6.08	4.91	4.35	8.64	7.21	4.76	10.32	8.12	6.73	12.73	10.02	7.81	15.30	12.05	7.87	16.44	14.54	8.88
0,29	1040	50	Totale	6.33	5.06	4.46	9.16	7.48	4.87	11.03	8.52	6.99	13.55	10.48	8.06	16.37	12.58	8.04	17.97	15.48	9.19
0,37	1320	50	Totale	6.49	5.15	4.53	9.48	7.63	4.94	11.47	8.76	7.14	14.03	10.75	8.19	16.99	12.87	8.13	18.92	16.01	9.35
0,44	1600	50	Totale	6.58	5.21	4.57	9.67	7.72	4.98	11.75	8.90	7.23	14.31	10.89	8.27	17.35	13.03	8.17	19.49	16.32	9.45
0,52	1880	50	Totale	6.66	5.26	4.60	9.83	7.79	5.01	11.98	9.02	7.30	14.54	11.01	8.33	17.63	13.16	8.21	19.97	16.57	9.52
0,60	2160	50	Totale	6.72	5.29	4.62	9.96	7.84	5.03	12.15	9.11	7.35	14.70	11.10	8.38	17.84	13.24	8.23	20.32	16.74	9.57
0,68	2440	50	Totale	6.76	5.32	4.64	10.05	7.88	5.05	12.29	9.18	7.39	14.82	11.17	8.41	17.99	13.31	8.25	20.60	16.87	9.61
0,76	2720	50	Totale	6.80	5.34	4.66	10.13	7.92	5.06	12.40	9.23	7.43	14.92	11.22	8.44	18.12	13.36	8.27	20.82	16.98	9.65
0,83	3000	50	Totale	6.83	5.36	4.67	10.19	7.94	5.07	12.48	9.27	7.45	14.99	11.25	8.45	18.20	13.40	8.28	20.98	17.05	9.67
0,06	200	60	Totale	5.45	4.69	4.29	6.81	6.37	4.62	7.71	6.26	5.95	9.25	8.08	6.94	10.17	9.18	7.18	10.07	9.93	7.45
0,13	480	60	Totale	6.76	5.56	4.97	9.27	8.02	5.43	10.88	8.84	7.48	13.40	10.89	8.72	15.74	13.00	8.94	16.34	15.10	9.84
0,21	760	60	Totale	7.34	5.92	5.24	10.43	8.69	5.73	12.46	9.79	8.11	15.33	12.06	9.39	18.46	14.51	9.47	19.88	17.54	10.70
0,29	1040	60	Totale	7.64	6.10	5.37	11.05	9.00	5.86	13.31	10.26	8.41	16.31	12.61	9.69	19.73	15.14	9.67	21.70	18.65	11.06
0,37	1320	60	Totale	7.82	6.21	5.45	11.42	9.18	5.94	13.83	10.55	8.59	16.89	12.93	9.85	20.46	15.48	9.77	22.83	19.28	11.25
0,44	1600	60	Totale	7.93	6.27	5.50	11.65	9.28	5.98	14.16	10.72	8.69	17.22	13.10	9.94	20.88	15.67	9.82	23.51	19.64	11.36
0,52	1880	60	Totale	8.02	6.33	5.53	11.85	9.37	6.02	14.43	10.86	8.78	17.49	13.24	10.02	21.22	15.82	9.86	24.07	19.93	11.45
0,60	2160	60	Totale	8.09	6.37	5.56	11.99	9.43	6.05	14.64	10.96	8.84	17.68	13.35	10.07	21.46	15.92	9.89	24.49	20.14	11.51
0,68	2440	60	Totale	8.15	6.40	5.59	12.11	9.48	6.07	14.80	11.05	8.89	17.83	13.42	10.11	21.65	16.00	9.91	24.82	20.30	11.56
0,76	2720	60	Totale	8.19	6.43	5.61	12.20	9.52	6.08	14.93	11.11	8.93	17.94	13.48	10.14	21.79	16.05	9.93	25.08	20.42	11.59
0,83	3000	60	Totale	8.22	6.45	5.62	12.27	9.54	6.09	15.02	11.16	8.96	18.02	13.53	10.16	21.89	16.09	9.94	25.27	20.50	11.62
0,06	200	70	Totale	6.42	5.50	5.03	8.04	7.49	5.43	9.09	7.38	7.01	11.75	9.55	8.14	11.96	10.80	8.45	11.87	11.69	8.79
0,13	480	70	Totale	7.94	6.52	5.82	10.87	9.39	6.36	12.77	10.36	8.77	15.66	12.73	10.19	18.50	15.27	10.48	19.25	17.75	11.55
0,21	760	70	Totale	8.61	6.93	6.13	12.24	10.16	6.70	14.61	11.47	9.50	17.93	14.11	10.98	21.63	16.99	11.07	23.34	20.54	12.53
0,29	1040	70	Totale	8.95	7.14	6.28	12.95	10.53	6.85	15.59	12.02	9.									



COOLING CAPACITIES IN kW , 4 PIPE

EAT	EWT	ΔT	Size Speed	61 AC			62AC			63 AC			93 AC			94 AC			
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
23°DB/17°CWB	5	3	Total	2,75	2,08	1,80	3,78	2,97	2,21	4,72	3,80	3,09	7,40	5,60	3,52	8,91	7,47	4,25	
			Sensible	1,99	1,48	1,26	2,63	2,03	1,48	3,34	2,63	2,12	5,05	3,79	2,37	6,10	5,03	2,85	
	5	5	Total	2,02	1,52	1,34	3,18	2,47	1,81	3,58	2,85	2,20	6,08	4,52	2,61	7,39	6,26	3,32	
			Sensible	1,68	1,24	1,06	2,34	1,79	1,29	2,80	2,18	1,70	4,44	3,28	1,95	5,41	4,47	2,42	
	5	7	Total	1,43	1,08	0,97	2,43	1,83	1,36	1,93	1,54	1,19	4,45	3,02	1,58	5,61	4,77	2,10	
			Sensible	1,39	1,03	0,90	1,96	1,48	1,07	1,90	1,50	1,17	3,69	2,57	1,42	4,58	3,79	1,82	
	5	9	Total	1,09	0,83	0,76	1,58	1,17	0,93	1,16	1,06	0,90	2,73	1,88	1,08	3,59	3,08	1,32	
			Sensible	1,09	0,83	0,76	1,49	1,11	0,85	1,16	1,06	0,90	2,61	1,83	1,07	3,38	2,83	1,31	
	7	3	Total	2,17	1,65	1,43	3,08	2,41	1,80	3,80	3,06	2,47	6,00	4,54	2,82	7,23	6,08	3,43	
			Sensible	1,74	1,29	1,10	2,31	1,78	1,29	2,92	2,29	1,84	4,41	3,30	2,05	5,35	4,39	2,47	
	7	5	Total	1,52	1,14	1,01	2,49	1,88	1,40	2,61	2,02	1,51	4,66	3,41	1,84	5,73	4,85	2,41	
			Sensible	1,45	1,08	0,93	2,02	1,51	1,10	2,33	1,78	1,37	3,79	2,78	1,59	4,66	3,83	2,01	
	7	7	Total	1,16	0,88	0,78	1,70	1,25	0,94	1,41	1,14	0,92	3,08	2,13	1,14	4,06	3,39	1,48	
			Sensible	1,16	0,88	0,78	1,58	1,17	0,86	1,41	1,14	0,92	2,90	2,02	1,13	3,79	3,09	1,44	
	7	9	Total	0,82	0,64	0,60	1,12	0,87	0,69	0,88	0,81	0,70	1,90	1,33	0,85	2,52	2,16	1,01	
			Sensible	0,82	0,64	0,60	1,12	0,87	0,68	0,88	0,81	0,70	1,90	1,33	0,85	2,52	2,15	1,01	
	25°DB/19°CWB	9	3	Total	1,60	1,18	1,03	2,38	1,86	1,39	2,89	2,31	1,85	4,61	3,48	2,12	5,57	4,70	2,60
				Sensible	1,51	1,10	0,93	1,98	1,52	1,10	2,49	1,94	1,55	3,79	2,83	1,74	4,60	3,77	2,10
		9	5	Total	1,22	0,91	0,80	1,73	1,31	0,97	1,79	1,38	1,07	3,34	2,39	1,29	4,15	3,51	1,65
				Sensible	1,22	0,91	0,80	1,62	1,22	0,89	1,79	1,37	1,07	3,14	2,25	1,25	3,89	3,20	1,57
		9	7	Total	0,89	0,67	0,61	1,21	0,89	0,68	0,92	0,83	0,71	2,15	1,50	0,84	2,81	2,33	1,07
				Sensible	0,89	0,67	0,61	1,21	0,89	0,68	0,92	0,83	0,71	2,15	1,50	0,84	2,81	2,31	1,07
		9	9	Total	0,57	0,49	0,47	0,79	0,62	0,50	0,61	0,58	0,51	1,15	0,92	0,62	1,55	1,41	0,74
				Sensible	0,57	0,49	0,47	0,79	0,62	0,50	0,61	0,58	0,51	1,15	0,92	0,62	1,55	1,41	0,74
11		3	Total	1,26	0,93	0,81	1,70	1,31	0,95	2,07	1,61	1,26	3,32	2,46	1,46	4,04	3,39	1,81	
			Sensible	1,26	0,93	0,81	1,64	1,25	0,89	2,05	1,58	1,25	3,18	2,35	1,41	3,88	3,18	1,73	
11		5	Total	0,94	0,71	0,63	1,26	0,94	0,68	1,25	0,99	0,77	2,45	1,66	0,93	3,08	2,55	1,19	
			Sensible	0,94	0,71	0,63	1,26	0,94	0,68	1,25	0,99	0,77	2,45	1,66	0,93	3,08	2,55	1,19	
11		7	Total	0,60	0,47	0,44	0,81	0,63	0,50	0,63	0,58	0,50	1,38	0,96	0,61	1,83	1,57	0,73	
			Sensible	0,60	0,47	0,44	0,81	0,63	0,50	0,63	0,58	0,50	1,38	0,96	0,61	1,83	1,57	0,73	
11		9	Total	0,39	0,34	0,33	0,46	0,37	0,31	0,38	0,37	0,33	0,70	0,59	0,41	0,81	0,81	0,48	
			Sensible	0,39	0,34	0,33	0,46	0,37	0,31	0,38	0,37	0,33	0,70	0,59	0,41	0,81	0,81	0,48	
13		3	Total	0,98	0,73	0,63	1,30	0,95	0,69	1,57	1,20	0,92	2,51	1,84	1,04	3,10	2,54	1,33	
			Sensible	0,98	0,73	0,63	1,30	0,95	0,69	1,57	1,20	0,92	2,51	1,84	1,04	3,10	2,54	1,33	
13		5	Total	0,65	0,49	0,45	0,89	0,65	0,49	0,71	0,60	0,51	1,59	1,12	0,61	2,13	1,70	0,79	
			Sensible	0,65	0,49	0,45	0,89	0,65	0,49	0,71	0,60	0,51	1,59	1,12	0,61	2,13	1,70	0,79	
13		7	Total	0,37	0,32	0,30	0,47	0,38	0,31	0,37	0,36	0,31	0,68	0,57	0,39	0,81	0,79	0,46	
			Sensible	0,37	0,32	0,30	0,47	0,38	0,31	0,37	0,36	0,31	0,68	0,57	0,39	0,81	0,79	0,46	
13		9	Total	0,21	0,18	0,18	0,16	0,14	0,14	0,17	0,17	0,15	0,32	0,28	0,20	0,37	0,38	0,23	
			Sensible	0,21	0,18	0,18	0,16	0,14	0,14	0,17	0,17	0,15	0,32	0,28	0,20	0,37	0,38	0,23	
25°DB/19°CWB	5	3	Total	3,53	2,67	2,30	4,74	3,73	2,77	6,03	4,84	3,95	9,34	7,09	4,48	11,22	9,40	5,36	
			Sensible	2,24	1,67	1,42	2,93	2,28	1,67	3,76	2,97	2,41	5,68	4,28	2,69	6,86	5,67	3,23	
	5	5	Total	2,83	2,13	1,86	4,15	3,25	2,41	4,93	3,95	3,16	8,02	6,07	3,68	9,68	8,17	4,52	
			Sensible	1,95	1,44	1,23	2,68	2,07	1,51	3,29	2,58	2,06	5,10	3,82	2,33	6,18	5,12	2,84	
	5	7	Total	2,01	1,53	1,37	3,48	2,63	1,96	3,45	2,64	1,97	6,48	4,74	2,50	7,99	6,76	3,31	
			Sensible	1,62	1,20	1,04	2,37	1,78	1,30	2,63	1,99	1,53	4,42	3,24	1,82	5,44	4,50	2,32	
	5	9	Total	1,41	1,07	0,98	2,58	1,91	1,42	1,60	1,36	1,14	4,44	2,96	1,47	5,85	5,03	1,99	
			Sensible	1,34	1,00	0,89	1,96	1,46	1,06	1,60	1,33	1,11	3,55	2,45	1,33	4,52	3,76	1,71	
	7	3	Total	2,95	2,24	1,94	4,03	3,18	2,37	5,08	4,09	3,34	7,95	6,04	3,81	9,55	8,02	4,57	
			Sensible	1,99	1,48	1,26	2,62	2,03	1,49	3,35	2,64	2,14	5,06	3,80	2,39	6,11	5,04	2,86	
	7	5	Total	2,21	1,67	1,47	3,42	2,67	1,97	3,93	3,14	2,49	6,56	4,92	2,93	7,93	6,73	3,63	
			Sensible	1,70	1,25	1,07	2,36	1,81	1,31	2,85	2,23	1,77	4,47	3,32	2,01	5,42	4,48	2,46	
	7	7	Total	1,51	1,14	1,02	2,67	2,02	1,50	2,16	1,71	1,29	4,90	3,46	1,74	6,14	5,23	2,30	
			Sensible	1,41	1,05	0,91	2,01	1,51	1,10	2,01	1,57	1,22	3,76	2,71	1,48	4,65	3,84	1,88	
	7	9	Total	1,13	0,85	0,75	1,72	1,25	0,99	1,18	1,07	0,91	2,92	2,01	1,10	3,96	3,34	1,40	
			Sensible	1,13	0,85	0,74	1,54	1,14	0,86	1,18	1,07	0,91	2,71	1,90	1,08	3,57	2,92	1,35	
	25°DB/19°CWB	9	3	Total	2,34	1,78	1,54	3,28	2,58	1,94	4,08	3,30	2,68	6,45	4,89	3,07	7,75	6,54	3,71
				Sensible	1,75	1,30	1,10	2,30	1,78	1,30	2,93	2,30	1,85	4,42	3,31	2,07	5,35	4,40	2,49
		9	5	Total	1,60	1,20	1,04	2,67	2,06	1,52	2,88	2,28	1,71	5,06	3,74	2,03	6,18	5,24	2,72
				Sensible	1,47	1,09	0,91	2,03	1,54	1,11	2,39	1,86	1,42	3,83	2,83	1,63	4,68	3,86	2,08
		9	7	Total	1,19	0,90	0,76	1,83	1,36	1,00	1,50	1,20	0,94	3,39	2,27	1,21	4,36	3,72	1,57
				Sensible	1,19	0,90	0,76	1,61	1,21	0,88	1,50	1,20	0,94	3,05	2,08	1,16	3,85	3,19	1,47
		9	9	Total	0,85	0,65	0,61	1,16	0,90	0,71	0,89	0,82	0,71	2,00	1,39	0,85	2,63	2,28	1,02
				Sensible	0,85	0,65	0,61	1,15	0,89	0,69	0,89	0,82	0,71	2,00	1,39	0,85	2,62	2,22	1,02
11		3	Total	1,70	1,28	1,12	2,53	1,99	1,49	3,10	2,49	2,00	4,93	3,74	2,30	5,95	5,03	2,80	
			Sensible	1,50	1,11	0,94	1,99	1,53	1,11	2,51	1,96	1,57	3,79	2,83	1,75	4,61	3,78	2,12	
11		5	Total	1,24	0,93	0,79	1,86	1,40	1,04	1,91	1,45	1,11	3,56	2,58	1,37	4,43	3,74	1,76	
			Sensible	1,24	0,93	0,78	1,66	1,24	0,90	1,87	1,42	1,10	3,18	2,33	1,28	3,92	3,22	1,61	
11		7	Total	0,91	0,69	0,62	1,25	0,91	0,70	0,97									

COOLING CAPACITIES IN kW , 4 PIPE

EAT	EWT	ΔT	Size	61 AC			62AC			63 AC			93 AC			94 AC			
				Speed	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
23°DB/17°WB	5	3	Total	3.53	2.67	2.30	4.73	3.73	2.77	6.03	4.84	3.95	9.34	7.09	4.47	11.22	9.39	5.36	
			Sensible	2.54	1.89	1.60	3.30	2.56	1.86	4.25	3.34	2.70	6.37	4.79	3.01	7.70	6.33	3.60	
	5	5	Total	2.83	2.13	1.86	4.17	3.26	2.43	5.00	3.99	3.19	8.05	6.08	3.69	9.74	8.20	4.53	
			Sensible	2.25	1.66	1.41	3.04	2.34	1.70	3.78	2.95	2.36	5.79	4.33	2.65	7.03	5.79	3.22	
	5	7	Total	2.12	1.59	1.37	3.56	2.69	2.00	3.67	2.84	2.14	6.65	4.88	2.59	8.19	6.92	3.44	
			Sensible	1.96	1.45	1.22	2.75	2.06	1.50	3.15	2.40	1.86	5.15	3.78	2.15	6.32	5.20	2.73	
	5	9	Total	1.70	1.24	1.11	2.72	2.03	1.50	2.20	1.76	1.37	5.01	3.38	1.77	6.36	5.41	2.34	
			Sensible	1.70	1.24	1.08	2.33	1.74	1.27	2.20	1.75	1.37	4.38	3.02	1.68	5.48	4.53	2.14	
	7	3	Total	2.95	2.24	1.94	4.02	3.18	2.37	5.09	4.09	3.34	7.94	6.03	3.81	9.54	8.01	4.56	
			Sensible	2.30	1.70	1.45	2.98	2.31	1.68	3.83	3.00	2.43	5.74	4.31	2.70	6.95	8.01	4.56	
	7	5	Total	2.20	1.65	1.45	3.50	2.70	2.00	4.10	3.25	2.60	6.70	5.00	3.00	8.08	6.80	3.80	
			Sensible	2.00	1.48	1.27	2.70	2.10	1.50	3.30	2.60	2.05	5.10	3.80	2.20	6.29	5.20	2.70	
	7	7	Total	1.73	1.29	1.15	2.79	2.10	1.56	2.70	2.08	1.58	5.22	3.78	1.99	6.48	5.48	2.58	
			Sensible	1.73	1.27	1.10	2.38	1.79	1.30	2.61	2.00	1.55	4.51	3.29	1.82	5.57	4.57	2.30	
	7	9	Total	1.43	1.08	0.97	2.06	1.51	1.13	1.71	1.39	1.14	3.74	2.59	1.39	4.94	4.09	1.81	
			Sensible	1.43	1.08	0.97	1.95	1.44	1.07	1.71	1.39	1.14	3.57	2.51	1.39	4.68	3.80	1.78	
	25°DB/19°WB	9	3	Total	2.34	1.78	1.54	3.31	2.60	1.95	4.15	3.34	2.71	6.49	4.92	3.09	7.82	6.58	3.73
				Sensible	2.05	1.52	1.28	2.67	2.05	1.49	3.41	2.67	2.15	5.11	3.82	2.38	6.20	5.08	2.87
		9	5	Total	1.79	1.34	1.17	2.76	2.13	1.56	3.11	2.47	1.88	5.26	3.89	2.23	6.41	5.43	2.85
				Sensible	1.77	1.31	1.12	2.39	1.82	1.30	2.89	2.25	1.75	4.55	3.36	1.99	5.56	4.56	2.48
		9	7	Total	1.49	1.11	0.98	2.10	1.57	1.15	2.09	1.63	1.26	4.03	2.81	1.53	5.05	4.24	1.97
				Sensible	1.49	1.11	0.98	1.99	1.49	1.08	2.09	1.63	1.26	3.85	2.69	1.51	4.80	3.95	1.91
		9	9	Total	1.16	0.88	0.79	1.58	1.16	0.89	1.23	1.09	0.92	2.84	1.99	1.10	3.73	3.07	1.41
				Sensible	1.16	0.88	0.79	1.58	1.16	0.89	1.23	1.09	0.92	2.84	1.99	1.10	3.73	3.04	1.41
11		3	Total	1.83	1.37	1.18	2.61	2.04	1.53	3.24	2.59	2.08	5.07	3.83	2.36	6.13	5.16	2.88	
			Sensible	1.81	1.34	1.14	2.35	1.80	1.30	2.99	2.33	1.87	4.50	3.35	2.07	5.47	4.47	2.50	
11		5	Total	1.53	1.14	0.99	2.11	1.57	1.15	2.44	1.86	1.43	4.06	2.98	1.67	5.01	4.17	2.13	
			Sensible	1.53	1.14	0.99	2.04	1.51	1.10	2.44	1.85	1.43	3.92	2.87	1.63	4.83	3.96	2.06	
11		7	Total	1.21	0.91	0.81	1.63	1.21	0.89	1.58	1.25	0.97	3.13	2.15	1.20	3.99	3.31	1.53	
			Sensible	1.21	0.91	0.81	1.63	1.21	0.89	1.58	1.25	0.97	3.13	2.15	1.20	3.99	3.29	1.53	
11		9	Total	0.88	0.67	0.62	1.19	0.91	0.70	0.91	0.83	0.72	2.08	1.45	0.86	2.73	2.32	1.03	
			Sensible	0.88	0.67	0.62	1.19	0.91	0.70	0.91	0.83	0.72	2.08	1.45	0.86	2.73	2.32	1.03	
13		3	Total	1.56	1.15	0.99	2.01	1.54	1.12	2.55	1.97	1.57	3.93	2.92	1.78	4.79	3.95	2.17	
			Sensible	1.56	1.15	0.99	2.00	1.53	1.09	2.55	1.97	1.57	3.88	2.88	1.76	4.74	3.87	2.14	
13		5	Total	1.25	0.94	0.82	1.66	1.24	0.90	1.93	1.45	1.13	3.25	2.36	1.31	4.03	3.32	1.64	
			Sensible	1.25	0.94	0.82	1.66	1.24	0.90	1.93	1.45	1.13	3.25	2.36	1.31	4.03	3.32	1.64	
13		7	Total	0.93	0.70	0.63	1.27	0.93	0.70	1.05	0.87	0.73	2.28	1.61	0.88	3.07	2.45	1.13	
			Sensible	0.93	0.70	0.63	1.27	0.93	0.70	1.05	0.87	0.73	2.28	1.61	0.88	3.07	2.45	1.13	
13		9	Total	0.59	0.49	0.47	0.83	0.65	0.52	0.63	0.60	0.52	1.30	0.94	0.63	1.75	1.55	0.75	
			Sensible	0.59	0.49	0.47	0.83	0.65	0.52	0.63	0.60	0.52	1.30	0.94	0.63	1.75	1.55	0.75	
25°DB/19°WB	5	3	Total	4.38	3.31	2.84	5.78	4.54	3.38	7.42	5.95	4.86	11.41	8.67	5.49	13.70	11.45	6.57	
			Sensible	2.80	2.08	1.77	3.61	2.80	2.05	4.66	3.68	2.98	6.99	5.27	3.32	8.44	6.96	3.97	
	5	5	Total	3.68	2.79	2.42	5.21	4.09	3.05	6.40	5.15	4.16	10.16	7.70	4.78	12.24	10.30	5.81	
			Sensible	2.51	1.86	1.58	3.37	2.60	1.90	4.23	3.33	2.68	6.45	4.84	3.01	7.81	6.45	3.63	
	5	7	Total	2.89	2.19	1.93	4.56	3.56	2.61	5.13	4.10	3.19	8.74	6.50	3.80	10.58	8.98	4.78	
			Sensible	2.20	1.62	1.39	3.09	2.37	1.71	3.68	2.87	2.26	5.84	4.33	2.58	7.10	5.88	3.19	
	5	9	Total	2.13	1.59	1.41	3.84	2.90	2.16	3.28	2.60	1.89	7.06	5.11	2.53	8.79	7.47	3.40	
			Sensible	1.92	1.42	1.20	2.76	2.07	1.50	2.84	2.21	1.69	5.12	3.74	2.05	6.33	5.23	2.62	
	7	3	Total	3.79	2.87	2.48	5.06	3.99	2.98	6.47	5.21	4.25	10.02	7.62	4.82	12.02	10.08	5.78	
			Sensible	2.55	1.89	1.61	3.30	2.55	1.87	4.25	3.35	2.71	6.37	4.80	3.02	7.70	6.34	3.61	
	7	5	Total	3.08	2.32	2.02	4.46	3.50	2.62	5.42	4.35	3.50	8.66	6.56	4.03	10.45	8.82	4.92	
			Sensible	2.27	1.67	1.43	3.05	2.35	1.71	3.82	2.99	2.39	5.81	4.35	2.68	7.05	5.80	3.25	
	7	7	Total	2.22	1.69	1.51	3.82	2.95	2.17	4.09	3.25	2.43	7.23	5.34	2.94	8.83	7.49	3.88	
			Sensible	1.95	1.44	1.23	2.76	2.10	1.51	3.24	2.52	1.93	5.20	3.84	2.23	6.36	5.25	2.82	
	7	9	Total	1.72	1.30	1.17	2.98	2.25	1.67	2.36	1.88	1.44	5.44	3.74	1.91	6.87	5.87	2.56	
			Sensible	1.68	1.25	1.09	2.38	1.79	1.30	2.32	1.83	1.41	4.46	3.15	1.72	5.55	4.57	2.21	
	25°DB/19°WB	9	3	Total	3.17	2.41	2.08	4.30	3.40	2.55	5.46	4.40	3.60	8.53	6.49	4.11	10.23	8.61	4.92
				Sensible	2.30	1.71	1.45	2.99	2.31	1.68	3.84	3.01	2.44	5.75	4.32	2.71	6.95	5.71	3.25
		9	5	Total	2.41	1.82	1.60	3.71	2.91	2.17	4.40	3.53	2.81	7.16	5.41	3.27	8.66	7.32	4.02
				Sensible	2.02	1.49	1.26	2.73	2.10	1.52	3.39	2.64	2.11	5.18	3.87	2.36	6.30	5.18	2.88
		9	7	Total	1.80	1.36	1.20	3.05	2.29	1.71	3.00	2.28	1.71	5.63	4.10	2.17	6.96	5.91	2.83
				Sensible	1.74	1.29	1.11	2.43	1.82	1.32	2.74	2.07	1.60	4.55	3.34	1.88	5.60	4.60	2.37
		9	9	Total	1.47	1.10	0.98	2.19	1.62	1.19	1.83	1.46	1.16	4.02	2.74	1.46	5.19	4.43	1.91
				Sensible	1.47	1.10	0.98	1.99	1.48	1.08	1.83	1.46	1.16	3.73	2.57	1.43	4.75	3.94	1.82
11		3	Total	2.52	1.92	1.67	3.52	2.79	2.09	4.44	3.59	2.92	6.96	5.29	3.34	8.36	7.06	4.01	
			Sensible	2.06	1.52	1.29	2.66	2.06	1.49	3.42	2.68	2.16	5.12	3.83	2.40	6.20	5.08	2.88	
11		5	Total	1.87	1.40	1.22	2.95	2.30	1.70	3.36	2.68	2.10	5.64	4.19	2.46	6.82	5.81	3.08	
			Sensible	1.79	1.32	1.13	2.41	1.84	1.32	2.94	2.29	1.81	4.58	3.38	2.04	5.57	4.57	2.50	
11		7	Total	1.52															

HEATING CAPACITIES IN kW , 4 PIPES

EAT	EWT	ΔT	Size	61 AC			62AC			63 AC			93 AC			94 AC		
				Speed	1	2	3	1	2	3	1	2	3	1	2	3	1	2
19	50	5	Totale	1.21	0.92	0.79	4.10	3.28	2.31	4.39	3.73	3.21	7.33	5.67	3.82	9.24	7.32	4.64
	50	10	Totale	1.01	0.77	0.67	2.79	2.24	1.51	2.87	2.57	2.21	5.89	4.58	3.13	7.55	6.01	3.88
	60	5	Totale	1.67	1.26	1.08	5.89	4.67	3.26	6.36	5.34	4.56	10.22	7.87	5.26	12.86	10.16	6.39
	60	10	Totale	1.48	1.13	0.97	4.72	3.83	2.68	4.99	4.33	3.75	8.86	6.89	4.66	11.21	8.91	5.71
	70	5	Totale	2.13	1.61	1.38	7.69	6.06	4.22	8.35	6.96	5.91	13.11	10.07	6.70	16.47	13.00	8.13
	70	10	Totale	1.95	1.47	1.27	6.54	5.24	3.69	6.99	5.96	5.13	11.78	9.12	6.14	14.87	11.78	7.48
	80	5	Totale	2.60	1.96	1.68	9.49	7.45	5.17	10.34	8.58	7.27	16.00	12.27	8.14	20.09	15.84	9.86
	80	10	Totale	2.41	1.82	1.57	8.36	6.65	4.66	8.99	7.60	6.51	14.70	11.34	7.60	18.52	14.65	9.23
20	50	5	Totale	1.16	0.88	0.76	3.93	3.14	2.21	4.20	3.58	3.08	7.05	5.45	3.67	8.89	7.04	4.47
	50	10	Totale	0.97	0.74	0.64	2.61	2.08	1.42	2.68	2.38	2.05	5.60	4.35	2.98	7.20	5.72	3.70
	60	5	Totale	1.63	1.23	1.05	5.72	4.53	3.17	6.17	5.19	4.43	9.93	7.65	5.12	12.50	9.88	6.21
	60	10	Totale	1.44	1.09	0.94	4.56	3.69	2.58	4.81	4.18	3.61	8.58	6.68	4.52	10.86	8.63	5.54
	70	5	Totale	2.09	1.58	1.35	7.52	5.92	4.12	8.16	6.80	5.78	12.82	9.85	6.56	16.11	12.72	7.95
	70	10	Totale	1.90	1.44	1.24	6.37	5.10	3.60	6.80	5.80	5.00	11.50	8.90	6.00	14.51	11.50	7.30
	80	5	Totale	2.55	1.92	1.65	9.32	7.31	5.08	10.15	8.42	7.14	15.71	12.05	8.00	19.73	15.55	6.69
	80	10	Totale	2.37	1.79	1.54	8.19	6.52	4.57	8.81	7.44	6.37	14.42	11.12	7.45	18.16	14.36	9.05
20	50	5	Totale	1.12	0.85	0.73	3.75	3.01	2.12	4.02	3.42	2.95	6.76	5.24	3.53	8.53	6.76	4.30
	50	10	Totale	0.92	0.71	0.61	2.40	1.92	1.34	2.45	2.19	1.89	5.30	4.13	2.83	6.84	5.43	3.52
	60	5	Totale	1.58	1.19	1.03	5.54	4.40	3.07	5.98	5.03	4.30	9.65	7.43	4.97	12.14	9.60	6.04
	60	10	Totale	1.39	1.06	0.91	4.39	3.55	2.48	4.63	4.03	3.48	8.30	6.46	4.37	10.50	8.35	5.36
	70	5	Totale	2.04	1.54	1.32	7.34	5.79	4.03	7.96	6.65	5.65	12.54	9.63	6.41	15.75	12.43	7.77
	70	10	Totale	1.86	1.41	1.21	6.20	4.97	3.51	6.62	5.65	4.87	11.22	8.68	5.86	14.15	11.22	7.13
	80	5	Totale	2.50	1.89	1.62	9.14	7.18	4.98	9.96	8.26	7.00	15.42	11.83	7.85	19.37	15.27	9.51
	80	10	Totale	2.32	1.76	1.51	8.01	6.38	4.47	8.62	7.29	6.24	14.13	10.90	7.31	17.80	14.08	8.88

EAT : Entering Air temperature °C
EWT : Entering Water Temperature °C

ΔT : water rise temperature °C

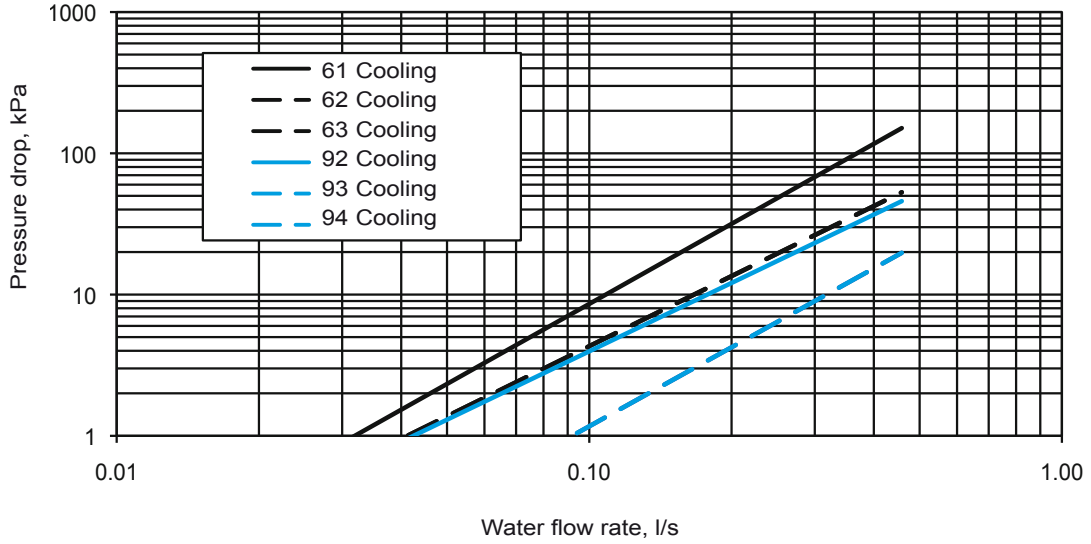
ACOUSTIC DATA

Size	AC motor	Frequencies Level (Hz) / Levels per octave (dB Lin)					TOTAL LEVEL		
		Speed	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	Lw dB(A)	Lp dB(A)
MELODY2 61	1	50	51	49	43	35	49	40	36
	2	43	44	40	31	24	40	31	27
	3	40	38	37	25	21	36	27	24
MELODY2 62	1	57	53	53	49	43	54	45	40
	2	50	51	49	43	33	49	40	36
	3	47	44	39	31	24	40	31	26
MELODY2 63	1	60	56	56	52	44	57	48	43
	2	52	50	48	42	34	48	39	35
	3	46	44	42	35	28	42	33	29
MELODY2 92	1	50	51	46	40	31	47	38	33
	2	44	44	39	33	24	40	31	26
	3	40	38	32	27	21	34	25	19
MELODY2 93	1	55	57	52	47	40	53	44	39
	2	49	50	45	39	32	46	37	32
	3	46	41	34	29	27	37	28	23
MELODY2 94 AC	1	63	61	58	53	47	59	50	45
	2	55	56	51	45	38	52	43	38
	3	47	44	38	31	28	40	31	26

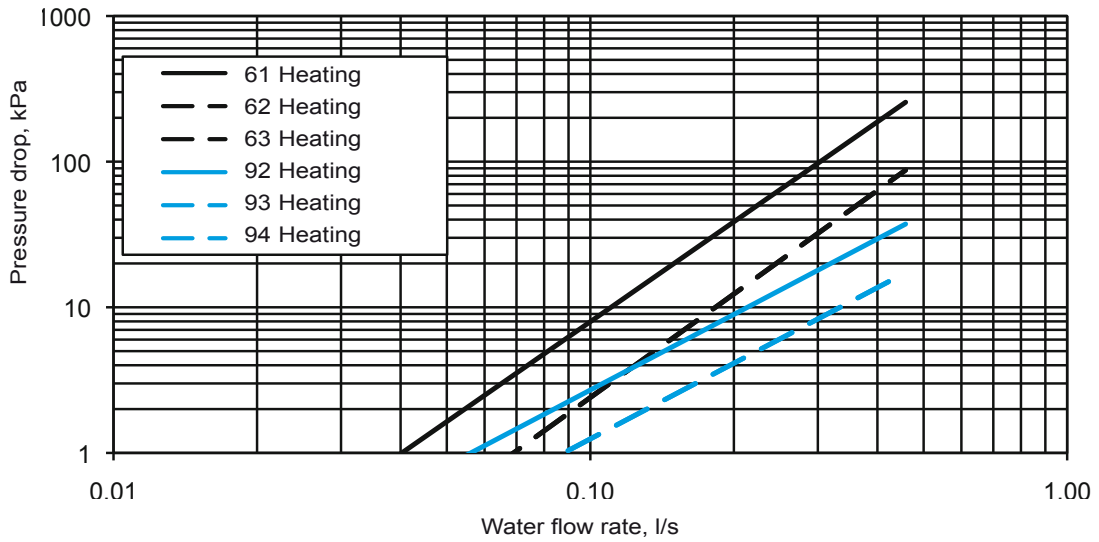
Sound pressure level and NR values are based on a hypothetical sound attenuation for the room of - 9dB(A)

COIL PRESSURE DROPS

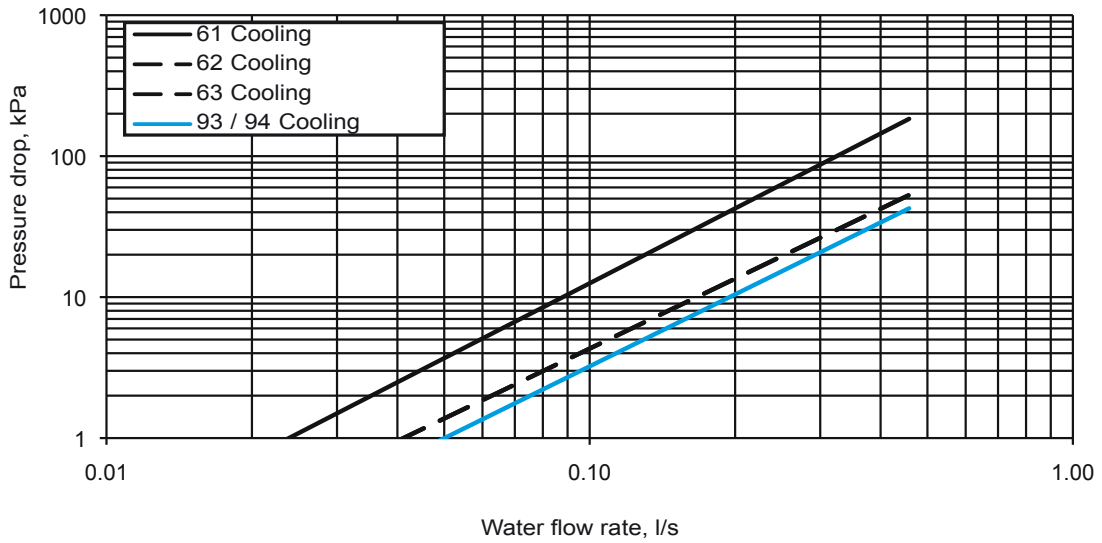
Two-pipe, Cooling



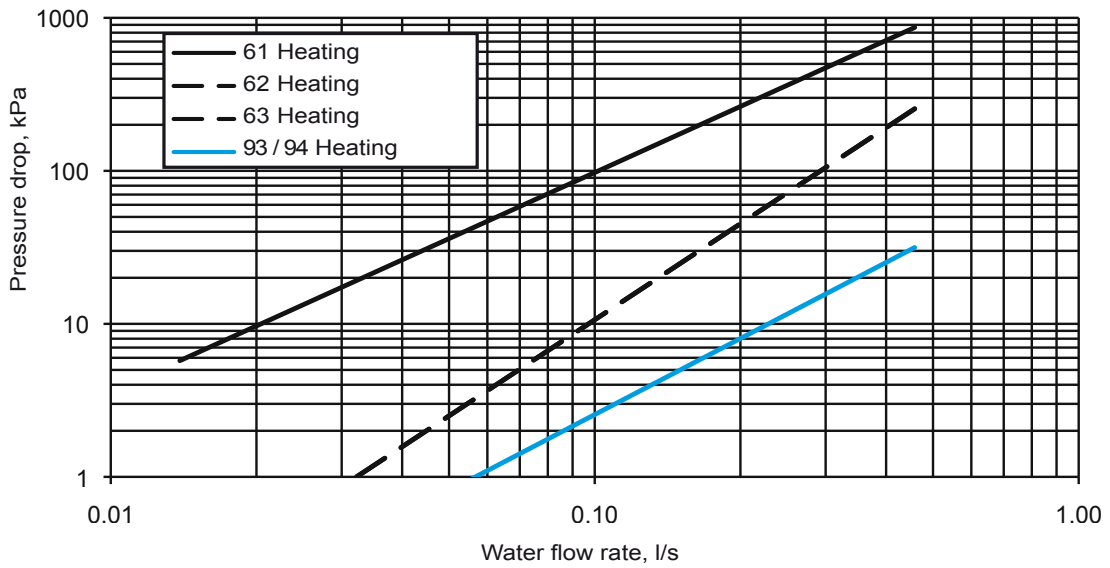
Two-pipe, Heating



Four-pipe units, Cooling



Four-pipe units, Heating



AIR THROW , M

MELDOY2	Louvres all open			One louver closed			Two louvres closed		
	High speed	Medium speed	Low speed	High speed	Medium speed	Low speed	High speed	Medium speed	Low speed
61	3.8	3.2	2.7	4.3	3.7	3.0	4.8	4.1	3.4
62	4.0	3.4	2.8	4.5	3.8	3.2	5.0	4.3	3.5
63	4.8	4.1	3.4	5.3	4.5	3.7	5.8	4.9	4.1
92	3.0	2.6	2.1	3.5	3.0	2.5	4.0	3.4	2.8
93	3.4	2.9	2.4	3.9	3.3	2.7	4.4	3.7	3.1
94	4.3	3.7	3.0	4.8	4.1	3.4	5.3	4.5	3.7

Notes:

1. The louvres were adjusted to use the Coanda effect to obtain an air flow pattern that adheres as closely as possible and parallel to the ceiling.
2. The air throw is defined as the distance at which air flow speed falls to 0.2 m/s, when the air flow leaves the unit parallel to the ceiling.
3. The values are to be considered as indicative, as they may vary according to the type of ceiling, room dimensions and even the furniture used.

OPERATING LIMITS

Water circuit	Maximum water-side pressure: 1400 kPa (142 m WG)	Minimum entering water temperature: 5°C
		Maximum entering water temperature: 80°C
Indoor temperature		Minimum temperature: 5°C
		Maximum temperature: 32°C for units with electric heaters
Power supply	Nominal operating limits	230 V - 1 ph - 50 Hz
		Min.207 - Max253 V for units without electric heaters
		Min.216 - Max244 V for units with electric heaters

This document is non-contractual. As part of its policy of continual product improvement, CIAT reserves the right to make any technical modification it feels appropriate without prior notification.

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