

IT Cooling Solutions

CyberCool XT

Chillers for every application

STULZ



STULZ chillers – the perfect solution for any task

Modern IT and telecommunications technology is becoming more and more powerful. But as this power increases, so too do the heat loads and therefore the demands facing the air-conditioning technology: non-stop cooling, 24 hours a day, 365 days a year, regardless of outside temperatures – otherwise, there is a threat of critical downtimes.

As a full line supplier for all businesses that employ sensitive electronic technology, STULZ offers sophisticated, innovative precision air conditioners and chillers – ensuring maximum operational reliability. Cost-effective, quiet and flexible for integration into any building, they are suitable for every area of application.

The CyberCool XT reflects the systematic further development of the chiller product range.

This means that STULZ quality and reliability are now available in an even broader range, with cooling capacities from 4 kW to 1,700 kW. We boast an enormous range of versions and sizes to offer you exactly the right solution to meet your individual needs.

For both indoor and outdoor use – every device is compact, ready-to-connect and can therefore be started up quickly and easily.

CyberCool XT

- » Compact, ready-to-connect chillers for internal and external installation
- » Numerous precision-designed versions and different sizes
- » Straightforward, fast installation and start-up
- » Standard ambient temperature range –10 to +40 °C, down to –40 °C with winter kit

Air-cooled,
outdoor
installation

from page 6



4 – 660 kW R410A, scroll



400 – 1,410 kW R134a, screw



Air-cooled,
outdoor
installation,
with free-
cooling

from page 10



24 – 660 kW R410A, scroll



400 – 1,460 kW R134a, screw



Air-cooled,
indoor
installation

from page 14



4 – 260 kW R407C, scroll



Air-cooled,
indoor
installation,
split-type

from page 18



5 – 490 kW R407C, scroll

440 – 1,380 kW R134a, screw



Water-cooled,
indoor
installation

from page 22



6 – 35 kW R410A, scroll

25 – 140 kW R407C, scroll



195 – 560 kW R410A, scroll



470 – 1,700 kW R134a, screw

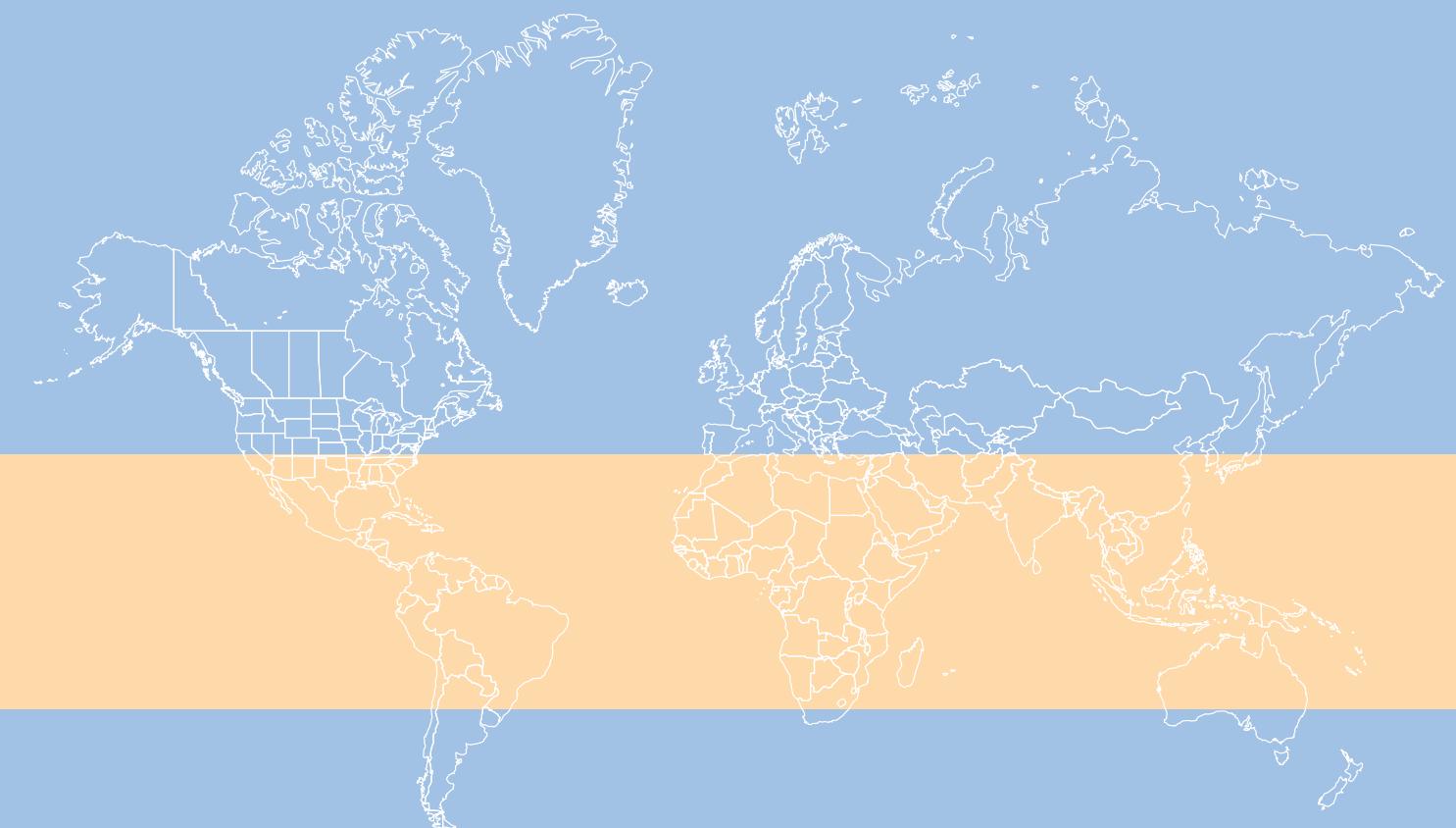


0 kW

500 kW

1,000 kW

1,500 kW



All over the blue area: In many parts of the world,
up to 40 % of energy costs can be saved via free cooling.

CyberCool XT series – running efficiently, saving energy

Thanks to their perfectly adapted range of options and intelligent control strategies, CyberCool XT chillers are especially energy-saving and therefore beneficial to the environment:

Up to 40 % more economical with free cooling

If the outside temperature is more than 1 K below the return temperature of the cooled water circuit, it can be utilised for free cooling, reducing both running costs and environmental impact. The blue areas on the map show the regions in which the advantages of Cyber Cool XT chillers with free cooling can best be exploited.

Reliable and cost-efficient with EC fans

With excellent efficiency of up to 92 %, EC fans noticeably lower energy consumption and the running and lifecycle costs of precision air conditioners and chillers.

In contrast to conventional AC fans, EC models are equipped with an electronically commutated permanent-magnet DC motor. This technology, which is not sensitive to voltage fluctuations, ensures extremely quiet running, a long service life and infinitely adjustable speeds.

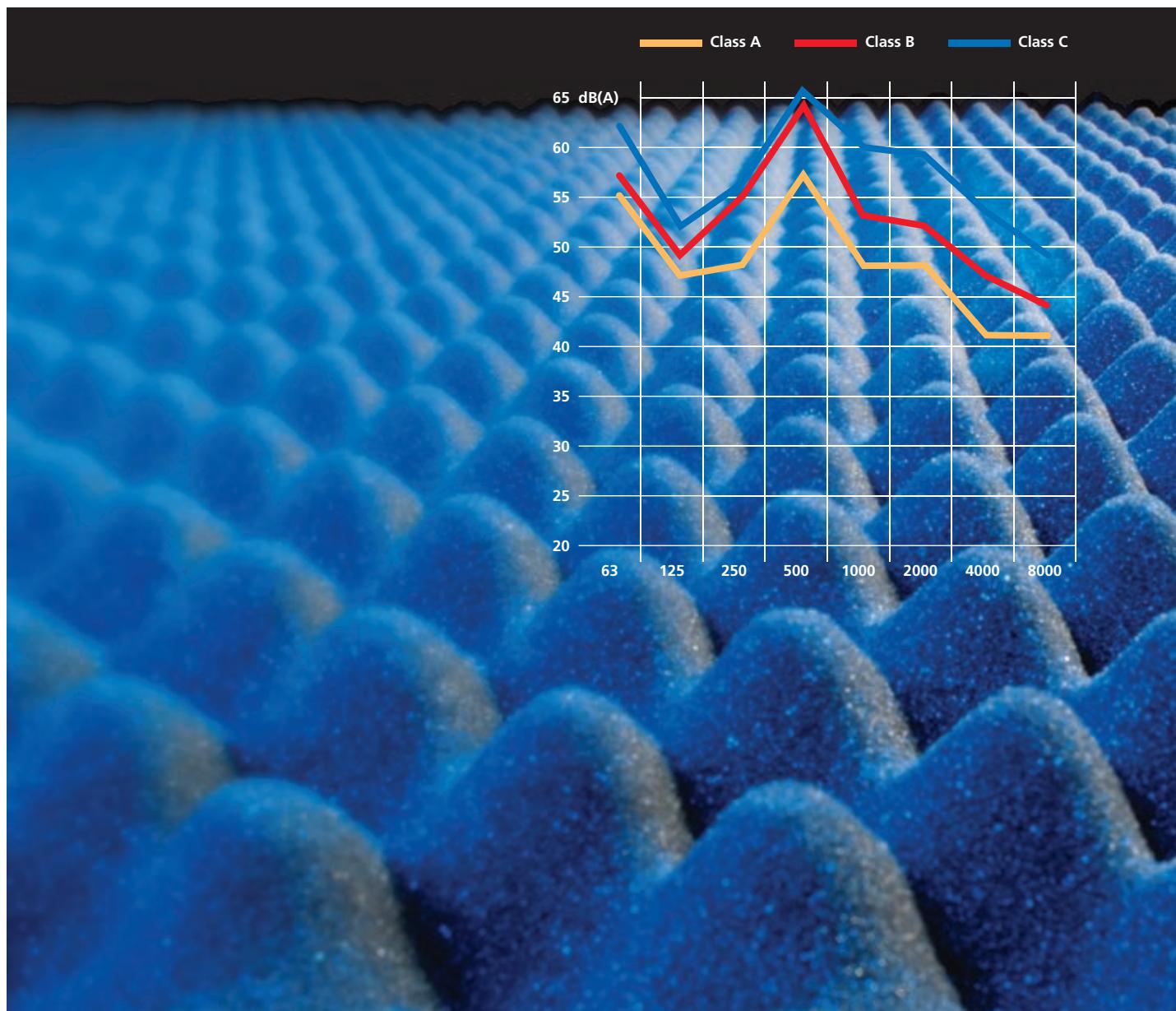
Cost-efficient in partial load mode

The design of chillers assumes maximum heat load – but during normal operation, this capacity is seldom used 100 %. Thanks to units with speed-controlled components, such as fans or compressors, a great deal of energy can be saved in partial load mode.

	Free cooling	EC fans	Partial load mode
CEO	● (from 24 kW)	● (from 24 kW)	●
CFO	●	●	●
CGO	●	●	●

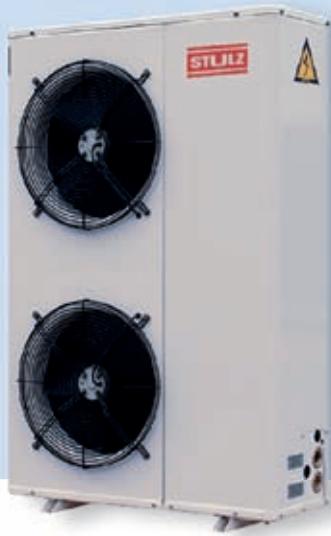
The strong, silent type

The CyberCool XT series focuses on reducing not just energy, but noise as well. From the standard Class C noise range, there are various soundproofing possibilities offering additional attenuation down to mid-range Class B and optimum low-noise Class A. With an achievable reduction of up to 10dB(A), this means that the perceived noise level can be halved.



Air-cooled, outdoor installation

CEO



CyberCool XT CEO series

Options:

- Antivibration mounts
- Serial interface to Modbus

CEO



CyberCool XT CEO series

Options:

- Antivibration mounts
- Serial interface to Modbus
- Free cooling
- EC fans from 24kW

Model															
CEO XXX A	41	51	61	81	91	111	141	171	191	211	231	271	321	371	
Cooling capacity (1)	kW	4.3	5.3	5.8	7.6	8.9	11.2	14.0	16.7	18.6	21.3	24.4	27.4	32.3	37.5
Total power consumption (1)	kW	1.9	2.3	2.5	3.2	3.1	4.3	5.3	6.8	7.0	8.1	9.6	11.0	11.5	14.1
Total EER at 100% (1)		2.3	2.3	2.3	2.4	2.9	2.6	2.6	2.5	2.7	2.6	2.5	2.5	2.8	2.7
ESEER (2)		2.56	2.62	2.54	2.65	3.34	3.03	3.07	2.82	3.08	2.97	2.96	3.19	2.85	3.00
Cooling capacity (3)	kW	4.7	5.8	6.3	8.3	9.7	12.1	15.1	18.1	20.2	23.1	26.4	29.5	35.0	40.5
Total power consumption (3)	kW	1.9	2.3	2.5	3.2	3.1	4.3	5.3	6.8	7.0	8.1	9.6	11.0	11.5	14.1
Total EER at 100% (3)		2.5	2.5	2.5	2.6	3.1	2.8	2.8	2.7	2.9	2.9	2.8	2.7	3.0	2.9
Compressor type	Rotary														
Refrigerant	R410A														
Number of compressors	1														
Number of refrigerant circuits	1														
Sound pressure level (4)	dB(A)	39	39	41	43	43	45	52	52	53	53	53	54	55	56
Power supply	V/Ph/Hz	230/1/50													
Length	mm	800	800	800	800	800	800	1,087	1,087	1,373	1,373	1,373	1,373	1,715	1,715
Width	mm	300	300	300	300	300	300	411	411	555	555	555	555	820	820
Height	mm	930	930	930	930	1,244	1,244	1,175	1,175	1,225	1,225	1,225	1,225	1,480	1,480
Weight in operation	kg	68	76	77	91	111	120	126	135	180	184	203	206	268	273

(1): Cold water 12°C/7°C, ambient air 35°C
(2): ESEER coefficient of seasonal performance in cooling mode according to Eurovent.
(3): Cold water 15°C/10°C, ambient air 35°C
(4): Full load, measured at 5m distance, free field conditions

Model																		
CEO XXX A	241	281	341	401	461	541	641	721	971	1101	1201	1301	1451	1551	1751	2001	2201	
Cooling capacity (1)	kW	24.3	28.2	33.7	40.0	45.9	54.4	64.1	72.2	97.4	110.0	121.0	131.0	143.0	155.0	174.0	197.0	218.0
Total power consumption (1)	kW	8.9	10.4	12.5	14.2	16.7	20.1	23.4	26.6	31.2	35.3	39.0	41.7	45.8	49.5	56.1	63.2	70.3
Total EER at 100% (1)		2.7	2.7	2.7	2.8	2.7	2.7	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
ESEER (2)		4.3	4.5	4.2	4.2	4.3	4.5	4.2	4.1	4.4	4.5	4.4	4.4	4.5	4.5	4.5	4.3	
Cooling capacity (3)	kW	26.4	30.7	36.1	43.5	49.9	59.1	69.9	78.5	106.0	119.0	132.0	143.0	156.0	169.0	190.0	215.0	238.0
Total power consumption (3)	kW	8.9	10.4	12.7	14.2	16.7	20.1	23.4	26.6	31.2	35.3	39.0	41.7	45.8	49.5	56.1	63.2	70.3
Total EER at 100% (3)		3.0	3.0	2.8	3.1	3.0	2.9	3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
Sound pressure level (4)	dB(A)	52	52	52	54	55	57	58	59	55	55	56	56	57	57	58	58	
Sound pressure level (5)	dB(A)	nicht verfügbar																

(1): Cold water 12°C/7°C, ambient air 35°C
(2): ESEER coefficient of seasonal performance in cooling mode according to Eurovent.
(3): Cold water 15°C/10°C, ambient air 35°C
(4): Full load, measured at 5m distance, free field conditions
(5): Full load, measured at 5m distance, free field conditions, low noise (class A)
(6): Cold water 15°C/10°C, glycol 30%, noise class B

CyberCool XT CEO

- » Small, compact and easy to put into service
- » Top energy ratios
- » Fan speed restricted to 70 % for silent operation
- » Low volume of circulating water means no buffer tank required
- » Speed-controlled fans and integrated pumps

4 – 37 kW

CyberCool XT CEO

- » Rapid, simple installation
- » Maximum operating reliability with high energy savings
- » Electronic expansion valve for precise control
- » Integrated pumps for a compact design
- » Modular layout allowing several units to be combined in the circuit
- » Intelligent closed-loop control for automatic adjustment to the prevailing conditions
- » Optionally with direct free cooling and EC fans (from 97 kW standard)

24 – 220 kW

0 kW

1,000 kW

Air-cooled, outdoor installation

CFO



CyberCool XT CFO series

Standard equipment:

Electronic expansion valve

Sound class B

EC-Fans

Options:

Direct free cooling

Low-noise sound class A

Kit for low water temperatures
(water/glycol down to -8°C)

Antivibration mounts

Various hydraulic kits

Serial interface to Modbus or LonWorks

Master-slave operation

CGO



CyberCool XT CGO series

Standard equipment:

Energy efficiency class A

Electronic expansion valve

Sound class C

Options:

Direct free cooling (with glycol)

Indirect free cooling (without glycol)

Low-noise sound classes A and B

Kit for low water temperatures
(water/glycol down to -8°C)

EC fans

Antivibration mounts

Various hydraulic kits

Serial interface to Modbus, LonWorks or BACnet®

Master-slave operation

Modell CFO XXXX A	2202	2502	2902	3102	3502	4002	4402	4802	5202	5702	6202	6602	
Cooling capacity (1)	kW	212.0	254.0	281.0	309.0	349.0	392.0	436.0	474.0	518.0	562.0	614.0	657.0
Total power consumption (1)	kW	67.7	81.4	90.6	99.5	112.0	125.0	140.0	153.0	166.0	181.0	194.0	210.0
Total EER at 100% (1)		3.13	3.12	3.10	3.11	3.12	3.14	3.11	3.10	3.12	3.10	3.16	3.13
ESEER (2)	kW	4.63	4.55	4.46	4.44	4.37	4.60	4.46	4.57	4.62	4.63	4.60	4.44
Cooling capacity (3)	kW	231.0	277.0	307.0	337.0	381.0	428.0	474.0	517.0	564.0	613.0	670.0	715.0
Total power consumption (3)		67.7	81.4	90.6	99.5	112.0	125.0	140.0	153.0	166.0	181.0	194.0	210.0
Total EER at 100% (3)		3.41	3.40	3.39	3.39	3.40	3.42	3.39	3.38	3.40	3.39	3.45	3.40
Sound pressure level (4)	dB(A)	63	63	64	65	65	66	66	66	66	66	66	67
Cooling capacity (5)	kW	202.0	239.0	261.0	292.0	321.0	368.0	416.0	444.0	484.0	534.0	574.0	617.0
Total power consumption (5)	kW	68.1	83.1	92.1	100.0	115.0	126.0	143.0	159.0	170.0	184.0	197.0	217.0
Total EER at 100% (5)		2.97	2.88	2.83	2.92	2.79	2.92	2.91	2.79	2.85	2.90	2.91	2.84
ESEER (2)		4.59	4.49	4.49	4.41	4.32	4.58	4.43	4.54	4.66	4.62	4.59	4.47
Cooling capacity (6)	kW	220.0	250.0	285.0	318.0	350.0	401.0	452.0	478.0	526.0	581.0	624.0	675.0
Total power consumption (6)	kW	68.1	83.1	92.1	100.0	115.0	126.0	143.0	159.0	170.0	184.0	197.0	217.0
Total EER at 100% (6)		3.2	3.0	3.1	3.2	3.0	3.2	3.2	3.0	3.1	3.2	3.2	3.1
Sound pressure level (7)	dB(A)	57	58	58	59	59	59	60	60	61	62	62	62
Compressor type							Scroll						
Refrigerant							R410A						
Number of compressors						4			5		6		
Number of refrigerant circuits							2						
Power supply	V/Ph/Hz						400/3/50						
Free-cooling capacity (8)	kW	220.0	264.0	293.0	321.0	363.0	407.0	452.0	493.0	538.0	584.0	638.0	681.0
Air temp. with free-cooling at 100%	°C	0.3	-1.8	-2.2	-2.5	-3.9	-4.2	-2.5	-3.9	-2.7	-2.2	-2.8	-3.5
Length	mm	5,800	5,800	5,800	5,800	5,800	3,800	4,750	5,800	5,800	5,800	5,800	5,800
Width	mm	1,097	1,097	1,115	1,115	1,115	2,228	2,228	2,228	2,228	2,228	2,228	2,228
Height	mm	1,825	1,825	2,221	2,221	2,221	2,246	2,246	2,246	2,246	2,246	2,246	2,246
Weight in operation	kg	1,784	2,057	2,171	2,329	2,397	2,821	3,125	3,490	4,146	4,297	4,525	4,571
(1): Cold water 12°C/7°C, ambient air 35°C, standard (noise class B)													
(3): Cold water 15°C/10°C, ambient air 35°C, standard (noise class B)													
(5): Cold water 12°C/7°C, ambient air 35°C, low noise (noise class A)													
(7): Full load, measured at 5m distance, free field conditions, low noise (noise class A)													
(2): ESEER coefficient of seasonal performance in cooling mode according to Eurovent.													
(4): Full load, measured at 5m distance, free field conditions, standard (noise class B)													
(6): Cold water 15°C/10°C, ambient air 35°C, low noise (noise class A)													
(8): Cold water 15°C/10°C, glycol 30 %, noise class B													

Model CGO XXXX A	4102	4602	5102	5602	6202	7002	7702	8402	8802	9402	10202	11402	12702	14102	
Cooling capacity (1)	kW	400.0	456.0	505.0	556.0	616.0	699.0	767.0	835.0	882.0	935.0	1,016.0	1,138.0	1,272.0	1,411.0
Total power consumption (1)	kW	129.0	146.0	162.0	179.0	198.0	225.0	247.0	268.0	284.0	300.0	328.0	366.0	408.0	452.0
Total EER at 100% (1)		3.10	3.12	3.12	3.11	3.11	3.11	3.11	3.12	3.11	3.10	3.11	3.12	3.12	3.12
Cooling capacity (2)	kW	437.0	498.0	554.0	607.0	675.0	762.0	836.0	909.0	963.0	1,020.0	1,105.0	1,243.0	1,389.0	1,539.0
Total power consumption (2)	kW	116.0	134.0	147.0	165.0	182.0	210.0	233.0	255.0	268.0	286.0	306.0	347.0	385.0	431.0
Total EER at 100% (2)		3.77	3.72	3.77	3.68	3.71	3.63	3.59	3.56	3.59	3.57	3.61	3.58	3.61	3.57
Sound pressure level (3)	dB(A)	71	71	72	72	72	72	73	73	73	74	75	75	76	76
Sound pressure level (4)	dB(A)	68	68	69	69	70	70	70	70	71	72	72	73	73	73
Cooling capacity (5)	kW	400.0	454.0	506.0	553.0	614.0	694.0	769.0	829.0	877.0	932.0	1,020.0	1,143.0	1,287.0	-
Total power consumption (5)	kW	129.0	146.0	162.0	177.0	198.0	224.0	247.0	267.0	281.0	299.0	329.0	368.0	413.0	-
Total EER at 100% (5)		3.10	3.11	3.12	3.12	3.10	3.10	3.11	3.10	3.12	3.12	3.10	3.11	3.12	-
Cooling capacity (6)	kW	437.0	495.0	554.0	604.0	672.0	756.0	834.0	895.0	956.0	1,010.0	1,110.0	1,246.0	1,403.0	-
Total power consumption (6)	kW	121.0	136.0	151.0	166.0	188.0	215.0	237.0	259.0	266.0	289.0	315.0	353.0	399.0	-
Total EER at 100% (6)		3.61	3.64	3.67	3.64	3.57	3.52	3.52	3.46	3.59	3.49	3.52	3.53	3.52	-
Sound pressure level (7)	dB(A)	65	65	66	66	67	67	67	67	68	69	70	70	-	-
Compressor type							twin-screw compressor								
Refrigerant							R134a								
Number of compressors							2								
Number of refrigerant circuits							2								
Power supply	V/Ph/Hz						400/3/50								
Free-cooling capacity (8)	kW	416.0	473.0	526.0	577.0	641.0	724.0	795.0	864.0	915.0	970.0	1,050.0	1,182.0	1,320.0	1,463.00
Air temp. with free-cooling at 100% (8)	°C	3.0</													

CyberCool XT CFO

- » Rapid, simple installation
- » Maximum operating reliability with high energy savings
- » Electronic expansion valve for precise control
- » Integrated pumps for a compact design
- » Modular layout allowing several units to be combined in the circuit
- » Intelligent closed-loop control for automatic adjustment to the prevailing conditions
- » Optionally with direct free cooling

220 – 660 kW

CyberCool XT CGO

- » Rapid, simple installation
- » Maximum operating reliability with high energy savings
- » Electronic expansion valve for precise control
- » Integrated pumps for a compact design
- » Modular layout allowing several units to be combined in the circuit
- » Intelligent closed-loop control for automatic adjustment to the prevailing conditions
- » Sturdy, self-supporting frame of enamelled, galvanised sheet steel
- » Optionally with direct free cooling and EC fans

400 – 1,410 kW

Air-cooled, indoor installation

CEI



CyberCool XT CEI series

Standard equipment:

Centrifugal fans, facility for connection to ducts
Integrated pump

Options:

Kit for low water temperatures
(water/glycol down to -7°C)
Antivibration mounts
Serial interface to Modbus
Fan speed control for operation at low outside
temperatures

CHI



CyberCool XT CHI series

Standard equipment:

Centrifugal fans, facility for connection to ducts
Kit for low water temperatures
(water/glycol down to -7°C)

Options for CHI 251 A - CHI 622 A:

Antivibration mounts
Plenum for front air outlet
Fan speed control for operation at low outside
temperatures
Serial interface to Modbus

Options for CHI 722 A - CHI 1422 A:

Antivibration mounts
Horizontal air outlet
Upward air outlet
4/8 pole electric fan motor (2 step)

CFI



CyberCool XT CFI series

Standard equipment:

Centrifugal fans, facility for connection to ducts
Kit for low water temperatures
(water/glycol down to -7°C)

Options:

Antivibration mounts
Various hydraulic kits
4/8 pole electric fan motor (2 step)
Fan speed control for operation at
low outside temperatures
Horizontal air outlet
Upward air outlet
Serial interface to Modbus or LonWorks

Model CEI XXX A	41	51	71	81	111	131	151	171	191	231
Cooling capacity (1)	kW	4.5	5.4	7.1	8.5	10.7	12.8	14.9	17.0	18.8
Total power consumption (1)	kW	1.8	2.2	2.8	3.3	4.1	4.8	5.7	5.7	6.6
Total EER at 100% (1)		2.5	2.4	2.6	2.6	2.6	2.7	2.6	3.0	2.8
Cooling capacity (2)	kW	4.9	5.9	7.7	9.3	11.7	14.1	16.3	18.7	20.6
Total power consumption (2)	kW	1.5	1.9	2.3	2.9	3.3	4.0	5.0	5.4	6.4
Total EER at 100% (2)		3.3	3.0	3.3	3.2	3.5	3.5	3.3	3.5	3.3
Type of compressor		Rotary					Scroll			
Refrigerant					R407C					
No. of compressors		1	1	1	1	1	1	1	1	1
No. of refrigerant circuits		1	1	1	1	1	1	1	1	1
Maximum pump head	kPa	52	42	44	32	149	129	123	105	114
Max. available static pressure	Pa	60	60	60	60	100	100	100	100	100
Sound pressure level (3)	dB(A)	52	53	55	56	60	61	61	63	65
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Length	mm	838	838	982	982	1,206	1,206	1,206	1,515	1,515
Width	mm	561	561	647	647	726	726	726	761	761
Height	mm	649	649	648	648	691	691	691	1,121	1,121
Weight in operation	kg	84	90	122	132	170	178	182	259	323
(1): Cold water 12°C/7°C, ambient air 35°C		(3): Sound level at 2m clear distance								
(2): Cold water 15°C/10°C, ambient air 35°C										

Model CHI XXXX A	251	301	332	422	502	622	722	812	932	1092	1002	1112	1212	1372	1442
Cooling capacity (1)	kW	25.5	30.1	33.1	42.6	50.5	62.1	72.1	81.5	93.5	109.0	100.0	111.0	121.0	137.0
Total power consumption (1)	kW	9.2	11.9	11.0	16.1	19.7	23.8	34.1	38.7	47.8	57.8	45.5	50.1	56.7	60.9
Total EER at 100% (1)		2.8	2.5	3.0	2.6	2.6	2.6	2.1	2.1	2.0	1.9	2.2	2.2	2.1	2.1
Cooling capacity (2)	kW	28.0	33.0	36.5	46.7	55.5	68.0	-	-	-	-	-	-	-	-
Total power consumption (2)	kW	9.1	11.9	11.3	16.4	18.4	22.7	-	-	-	-	-	-	-	-
Total EER at 100% (2)		3.1	2.8	3.2	2.8	3.0	3.0	-	-	-	-	-	-	-	-
Type of compressor		Scroll						Reciprocating piston compressor					Scroll		
Refrigerant					R407C										
No. of compressors		1	1	2	2	2	2	2	2	2	4	4	4	4	4
No. of refrigerant circuits		1	1	2	2	2	2	2	2	2	2	2	2	2	2
Max. available static pressure	Pa	410	410	300	300	235	235	90	90	120	90	90	90	90	120
Sound pressure level (3)	dB(A)	58	58	58	56	57	58	55	60	62	62	57	57	59	60
Power supply	V/Ph/Hz						400/3/50								
Length	mm	1,780	1,780	2,230	2,230	2,230	2,230	2,478	2,478	2,478	2,478	3,308	3,308	3,308	3,308
Width	mm	846	846	978	978	978	978	974	974	974	974	1,155	1,155	1,155	1,155
Height	mm	1,205	1,205	1,430	1,430	1,705	1,705	1,676	1,676	1,676	1,676	2,275	2,275	2,275	2,275
Weight in operation	kg	397	417	606	647	737	749	940	972	1,080	1,100	1,530	1,590	1,620	1,710
(1): Cold water 12°C/7°C, ambient air 35°C		(3): Sound level at 2m clear distance													
(2): Cold water 15°C/10°C, ambient air 35°C															

Model CFI XXXX A	1702	1802	2001	2002	2102	2401	2302	2602
Cooling capacity (1)	kW	173.0	182.0	200.0	198.0	212.0	237.0	231.0
Total power consumption (1)	kW	66.9	71.1	75.7	79.0	82.0	94.4	92.0
Total EER at 100% (1)		2.6	2.6	2.6	2.5	2.6	2.5	2.5
Cooling capacity (2)	kW	189.7	199.0	218.4	216.8	231.6	258.7	252.7
Total power consumption (2)	kW	60.1	63.8	68.9	68.8	72.5	86.1	79.4
Total EER at 100% (2)		3.2	3.1	3.2	3.2	3.2	3.0	3.1
Type of compressor		Scroll						
Refrigerant			R407C					
No. of compressors		4	4	3	4	4	4	4
No. of refrigerant circuits		2	2	1	2	1	2	2
Max. available static pressure	Pa	90	50	50	60	90	90	120
Sound pressure level (3)	dB(A)	68	69	69	70	70	70	72
Power supply	V/Ph/Hz				400/3/50			
Length	mm	4,440	4,440	4,440	4,440	4,440	4,440	4,440
Width	mm	1,140	1,140	1,140	1,140	1,140	1,140	1,140
Height	mm	2,270	2,270	2,270	2,270	2,270	2,270	2,270
Weight in operation	kg	2,135	2,312	2,118	2,176	2,258	2,385	2,437
(1): Cold water 12°C/7°C, ambient air 35°C		(3): Sound level at 2m clear distance						
(2): Cold water 15°C/10°C, ambient air 35°C								

CyberCool XT CEI

- » Maximum operating reliability with high energy savings
- » Integrated pumps for a compact design
- » Centrifugal fans for the condenser, facility for connection to ducts
- » Intelligent closed-loop control for automatic adjustment to the prevailing conditions

4 – 25 kW

CyberCool XT CHI

- » Rapid, simple installation
- » Ideal energy ratios combined with minimal size
- » Centrifugal fans for the condenser, facility for connection to ducts
- » Use of low-revolution fans

25 – 145 kW

CyberCool XT CFI

- » Centrifugal fans for the condenser, facility for connection to ducts
- » Maximum operating reliability with high energy savings
- » Electronic expansion valve for precise control
- » Integrated pumps for a compact design
- » Intelligent closed-loop control for automatic adjustment to the prevailing conditions

170 – 255 kW

0 kW

300 kW

Air-cooled, indoor installation, split-type

CHS



CyberCool XT CHS series

Standard equipment:

- Air-cooled chiller without condenser
- Indoor installation with external condenser

Options:

- Pump with expansion vessel
(unit sizes CHS 51 A to CHS 111 A)
- Kit for low water temperatures
(water/glycol down to -7°C)
- Serial interface to Modbus

CFS



CyberCool XT CFS series

Standard equipment:

- Air-cooled chiller without condenser
- Indoor installation with external condenser
- Electronic expansion valve
- Sound class B

Options:

- Sound class A
- Kit for low water temperatures
(water/glycol down to -7°C)
- Antivibration mounts
- Various hydraulic kits
- Serial interface to Modbus or LonWorks
- Master-slave operation

CGS



CyberCool XT CGS series

Standard equipment:

- Air-cooled chiller without condenser
- Indoor installation with external condenser
- Electronic expansion valve
- Sound class B

Options:

- Sound class A
- Kit for low water temperatures
(water/glycol down to -8°C)
- Antivibration mounts
- Serial interface to Modbus or LonWorks
- Master-slave operation

Model CHS XXXX A	51	61	71	81	111	131	151	171	191	221	261	321	252	342	372	452	522	582	642	822	972	1132	1382	
Cooling capacity (1)	kW	4.8	6.0	7.3	8.4	10.8	12.8	15.3	17.1	18.8	22.5	26.3	32.3	25.7	34.2	37.5	45.1	52.5	58.5	64.5	82.1	96.9	113.0	138.0
Total power consumption (1)	kW	1.5	1.9	2.2	2.6	3.1	3.9	4.5	5.1	5.8	7.1	8.2	10.1	7.7	10.1	11.7	14.3	16.4	18.3	20.1	24.9	29.4	33.9	41.6
Total EER at 100% (1)		3.2	3.1	3.3	3.2	3.5	3.3	3.4	3.4	3.2	3.2	3.2	3.2	3.3	3.4	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3
Cooling capacity (2)	kW	5.3	6.7	8.1	9.4	12.0	14.3	16.9	19.8	20.8	25.0	29.2	35.2	28.7	38.2	41.6	50.1	58.4	65.0	71.7	91.1	107.9	125.4	152.9
Total power consumption (2)	kW	1.5	1.9	2.2	2.7	3.1	3.8	4.5	5.1	5.9	7.1	8.2	10.1	7.7	10.2	11.7	14.2	16.4	18.3	20.2	24.9	29.5	34.2	42.0
Total EER at 100% (2)		3.7	3.5	3.7	3.5	3.9	3.7	3.8	3.9	3.5	3.5	3.6	3.5	3.7	3.7	3.6	3.5	3.6	3.5	3.7	3.7	3.7	3.7	3.6
Type of compressor															Scroll									
Refrigerant															R407C									
No. of compressors		1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
No. of refrigerant circuits		1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Sound pressure level (3)	dB(A)	45	45	45	45	46	46	46	46	55	55	56	58	49	49	58	58	59	60	61	62	62	62	62
Power supply	V/Ph/Hz	230/1/50													400/3/50									
Length	mm	402	402	402	402	402	402	402	402	402	402	402	402	402	802	802	802	802	802	802	580	580	580	580
Width	mm	487	487	487	487	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	1,062	1,062	1,062	1,062
Height	mm	790	790	790	790	790	790	790	790	915	915	915	915	790	915	915	915	915	915	915	1,538	1,538	1,538	1,538
Weight in operation	kg	77	80	85	87	91	92	93	93	113	113	113	119	158	193	232	232	239	245	250	410	445	468	520
(1): Cold water = 12°C/7°C; condensation temperature (dew point) = 50°C		(2): Cold water = 15°C/10°C; condensation temperature (dew point) = 50°C		(3): Sound level at 2m clear distance																				

Model CFS XXXX A	1752	1852	2051	1952	2052	2501	2402	2702	3002	3302	3602	4002	4502	4902	
Cooling capacity (1)	kW	174.0	184.0	205.0	196.0	206.0	248.0	238.0	271.0	305.0	332.0	360.0	405.0	447.0	487.0
Total power consumption (1)	kW	55.1	58.0	60.9	60.8	63.7	75.9	72.4	81.1	91.0	101.0	109.0	122.0	137.0	152.0
Total EER at 100% (1)		3.2	3.2	3.4	3.2	3.2	3.3	3.3	3.3	3.4	3.3	3.3	3.3	3.3	3.2
Cooling capacity (2)	kW	192.9	203.3	227.4	217.2	227.7	274.0	262.9	299.5	337.1	366.4	398.4	447.5	495.1	538.0
Total power consumption (2)	kW	54.6	57.6	61.0	60.6	63.5	76.1	72.4	81.3	91.4	101.5	108.6	121.9	137.0	152.0
Total EER at 100% (2)		3.5	3.5	3.7	3.6	3.6	3.6	3.6	3.7	3.7	3.6	3.7	3.7	3.6	3.5
Type of compressor														Scroll	
Refrigerant														R407C	
No. of compressors		4	4	3	4	4	3	4	4	4	4	6	6	6	6
No. of refrigerant circuits		2	2	1	2	2	1	2	2	2	2	2	2	2	2
Sound pressure level (3)	dB(A)	68	69	72	70	71	72	72	72	72	72	74	75	76	76
Sound pressure level (4)	dB(A)	63	63	66	64	65	67	66	67	67	66	68	69	70	70
Power supply	V/Ph/Hz											400/3/50			
Length	mm	2,510	2,510	2,626	2,510	2,510	2,626	2,510	2,510	2,510	2,510	2,976	2,976	2,976	2,976
Width	mm	850	850	850	850	850	850	850	850	850	850	850	850	850	850
Height	mm	1,876	1,876	1,876	1,876	1,876	1,876	1,876	1,876	1,876	1,876	1,876	1,876	1,876	1,876
Weight in operation, sound class B	kg	1,172	1,235	1,169	1,310	1,363	1,169	1,478	1,576	1,576	1,576	2,070	2,241	2,241	2,241
Weight in operation, sound class A	kg	1,253	1,316	1,264	1,391	1,445	1,264	1,560	1,658	1,658	1,658	2,212	2,382	2,382	2,382
(1): Cold water = 12°C/7°C; condensation temperature (dew point) = 50°C		(2): Cold water = 15°C/10°C; condensation temperature (dew point) = 50°C		(3): Sound level at 2m clear distance (sound class B)								(4): Sound level at 2m clear distance (sound class A)			

Model CGS XXXXX A	4402	4702	5602	6102	7002	7702	8302	8802	9202	9702	10002	11502	12602	13802	
Cooling capacity (1)	kW	439.0	469.0	559.0	614.0	698.0	770.0	835.0	879.0	923.0	974.0	1,002.0	1,148.0	1,262.0	1,385.0
Total power consumption (1)	kW	131.0	137.0	162.0	176.0	198.0	219.0	239.0	251.0	263.0	276.0	286.0	326.0	358.0	401.0
Total EER at 100% (1)		3.35	3.42	3.45	3.49	3.53	3.52	3.49	3.50	3.51	3.53	3.50			

CyberCool XT CHS

- » Ideal for sound-sensitive applications and resolving problems concerning space outside the building
- » For connection to a remote condenser

4 – 140 kW

CyberCool XT CFS

- » Rapid, simple installation
- » Maximum operating reliability with high energy savings
- » Ideal for sound-sensitive applications and resolving problems concerning space outside the building
- » Compact model, also fits through standard doors (850 mm)
- » Electronic expansion valve for precise control
- » Integrated pumps for a compact design
- » For connection to a remote condenser

170 – 490 kW

CyberCool XT CGS

- » Air-cooled chiller with large cooling capacities for indoor installation
- » Ideal for sound-sensitive applications and resolving problems concerning space outside the building
- » Electronic expansion valve for precise control
- » Modular layout allowing several units to be combined in the circuit
- » Sturdy, self-supporting frame of enamelled, galvanised sheet steel

440 – 1,380 kW

0 kW

1,500 kW

Water-cooled, indoor installation

CEI



CyberCool XT CEI series

Standard equipment:

Speed-controlled pumps on user side

Options:

- Kit for low water temperatures
(water/glycol down to -8°C)
- Source side up to +5°C
- Speed-controlled pumps on source side
- Serial interface to Modbus
- Antivibration mounts

CHI



CyberCool XT CHI series

Options:

- Serial interface to Modbus
- Kit for low water temperatures
(water/glycol down to -8°C)
- Antivibration mounts

CFI



CyberCool XT CFI series

Standard equipment:

Electronic expansion valve

Sound class B

Options:

- Sound class A
- Antivibration mounts
- Kit for low water temperatures
(water/glycol down to -7°C)
- Various hydraulic kits
- Serial interface to Modbus or LonWorks
- Master-slave operation

Model CEI XXX W	61	71	81	101	131	171	201	221	261	301	351	
Cooling capacity (1)	kW	6.0	6.4	7.9	10.5	13.4	16.7	20.2	22.1	25.8	30.5	35.0
Total power consumption (1)	kW	1.5	1.7	2.0	2.4	3.2	3.8	4.8	5.0	5.9	6.6	7.6
Total EER at 100% (1)		3.9	3.9	4.0	4.4	4.2	4.4	4.2	4.4	4.4	4.6	4.6
Cooling capacity (2)	kW	6.2	6.7	8.2	10.9	13.9	17.4	21.2	22.8	26.8	31.7	36.4
Total power consumption (2)	kW	1.7	1.8	2.2	2.7	3.6	4.2	5.3	5.7	6.6	7.4	8.4
Total EER at 100% (2)		3.7	3.7	3.7	4.0	3.9	4.1	4.0	4.0	4.1	4.3	4.3
Type of compressor							Scroll					
Refrigerant							R410A					
No. of compressors							1					
No. of refrigerant circuits							1					
Sound pressure level (3)	dB(A)	39	39	40	40	41	42	45	46	47	48	49
Power supply	V/Ph/Hz		230/1/50					400/3/50				
Length	mm	402	402	402	402	402	573	573	573	573	573	573
Width	mm	602	602	602	602	602	604	604	604	604	604	604
Height	mm	785	785	785	785	785	858	858	858	858	858	858
Weight in operation	kg	78	80	83	87	95	111	126	144	159	161	166
(1): Cold water = 12°C/7°C; water temperature at external exchanger outlet = 35°C		(2): Cold water = 15°C/10°C; water temperature at external exchanger outlet = 40°C		(3): Sound level at 2m clear distance								

Model CHI XXXX W	271	362	402	472	562	622	682	892	1052	1202	1402	
Cooling capacity (1)	kW	27.1	36.5	40.3	47.5	55.9	61.8	68.4	89.4	104.0	119.0	144.0
Total power consumption (1)	kW	7.0	8.9	10.7	12.9	14.4	16.3	17.9	20.1	25.2	28.8	36.0
Total EER at 100% (1)		3.9	4.1	3.8	3.7	3.9	3.8	3.8	4.4	4.1	4.1	4.0
Cooling capacity (2)	kW	28.6	38.6	42.4	49.4	59.0	65.1	72.0	94.5	110.8	127.2	153.6
Total power consumption (2)	kW	7.8	10.0	12.2	14.5	16.1	18.4	20.1	23.5	28.1	32.1	40.3
Total EER at 100% (2)		3.7	3.9	3.5	3.4	3.7	3.5	3.6	4.0	3.9	4.0	3.8
Type of compressor							Scroll					
Refrigerant							R407C					
No. of compressors							2					
No. of refrigerant circuits							2					
Sound pressure level (3)	dB(A)	49	49	58	58	59	60	61	62	62	62	62
Power supply	V/Ph/Hz						400/3/50					
Length	mm	802	802	802	802	802	802	802	1,062	1,062	1,062	1,062
Width	mm	602	602	602	602	602	602	602	580	580	580	580
Height	mm	790	790	915	915	915	915	915	1,538	1,538	1,538	1,538
Weight in operation	kg	177	197	245	247	257	263	268	447	487	517	577
(1): Cold water = 12°C/7°C; water temperature at external exchanger outlet = 35°C		(2): Cold water = 15°C/10°C; water temperature at external exchanger outlet = 40°C		(3): Sound level at 2m clear distance								

Model CFI XXXXX W	2002	2102	2252	2352	2502	2852	3102	3352	3502	3702	4052	4452	5002	5602	
Cooling capacity (1)	kW	195.0	207.0	223.0	234.0	251.0	286.0	312.0	334.0	353.0	371.0	406.0	440.0	497.0	560.0
Total power consumption (1)	kW	41.5	44.5	47.6	50.3	53.7	59.8	65.4	70.5	75.7	79.6	86.6	94.2	106.0	120.0
Total EER at 100% (1)		4.7	4.7	4.7	4.7	4.7	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Cooling capacity (2)	kW	200.0	210.0	238.0	249.0	256.0	291.0	318.0	356.0	376.0	395.0	432.0	476.0	534.0	592.0
Total power consumption (2)	kW	46.2	49.7	52.9	56.0	59.1	66.2	72.4	78.8	84.6	89.1	96.9	105.0	119.0	133.0
Total EER at 100% (2)		4.3	4.2	4.5	4.4	4.3	4.4	4.4	4.5	4.4	4.4	4.5	4.5	4.5	4.5
Compressor type							Scroll								
Refrigerant							R410A								
Number of compressors							4				5			6	
Number of refrigerant circuits							2								
Sound pressure level (3)	dB(A)	69	70	70	70	70	70	72	72	72	72	72	72	73	73
Sound pressure level (4)	dB(A)	60	60	61	61	62	62	63	64	64	64	64	64	64	65
Power supply	V/Ph/Hz							400/3/50							
Length	mm	2,510	2,510	2,510	2,510	2,510	2,510	2,510	2,510	2,510	2,510	2,976	2,976	2,976	2,976
Width	mm	850	850	850	850	850	850	850	850	850	850	850	850	850	850
Height	mm	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
Weight in operation, class A	kg	1,238	1,320	1,360	1,397	1,489	1,490	1,604	1,694	1,723	1,731	2,012	2,272	2,409	2,406
Weight in operation, class B	kg	1,337	1,392	1,433	1,463	1,589	1,589	1,709	1,793	1,823	1,830	2,128	2,419	2,528	2,552
(1): Cold water = 12°C/7°C ; water temperature at external exchanger outlet = 35°C		(2): Cold water = 15°C/10°C ; water temperature at external exchanger outlet = 40°C		(3): Sound level at 2 m clear distance (sound class B)			(4): Sound level at 2 m clear distance (sound class A)								

CyberCool XT CEI

- » Specially developed for sound-reduced operation
- » Rapid, simple installation
- » All components such as pumps and expansion vessel are already integrated
- » Intelligent closed-loop control for automatic adjustment to the prevailing conditions

5 – 35 kW

CyberCool XT CHI

- » Ready-to-connect water/water unit
- » Rapid, simple installation
- » Ideal for sound-sensitive applications and resolving problems concerning space outside the building
- » Automatic adaptation of control parameters

25 – 145 kW

CyberCool XT CFI

- » Rapid, simple installation
- » Maximum operating reliability with high energy savings
- » Electronic expansion valve for precise control
- » Integrated pumps for a compact design
- » Compact model, also fits through standard doors (850 mm)

195 – 515 kW

0 kW

1,500 kW

Air-cooled, indoor installation, split-type

CGI

CyberCool XT CGI series

Standard equipment:

Energy efficiency class A

Electronic expansion valve

Sound class B

Options:

Sound class A

Kit for low water temperatures (water/glycol down to -7°C)

Antivibration mounts

Serial interface to Modbus or LonWorks

Master-Slave operation



CGI

CyberCool XT CGI series

Standard equipment:

Energy efficiency class A

Electronic expansion valve

Sound class B

Options:

Kit for low water temperatures (water/glycol down to -7°C)

Antivibration mounts

Serial interface to Modbus or LonWorks

Master-slave operation



Model CGI XXXXX W	4702	5302	6102	7002	7602	8302	9002	9602	10102	11702	12002	12502	14502	15402	
Cooling capacity (1)	kW	468.0	536.0	610.0	697.0	758.0	831.0	900.0	960.0	1,011.0	1,169.0	1,209.0	1,248.0	1,448.0	1,537.0
Total power consumption (1)	kW	92.6	106.1	119.0	137.0	150.0	164.0	177.0	188.0	199.0	230.0	238.0	247.0	286.0	303.0
Total EER at 100% (1)		5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Cooling capacity (2)	kW	512.2	587.6	668.7	765.2	831.6	913.2	988.6	1,053.0	1,107.0	1,284.0	1,327.0	1,370.0	1,577.0	1,689.0
Total power consumption (2)	kW	94.6	108.8	119.3	140.5	151.6	165.4	179.0	190.0	200.0	233.0	241.0	250.0	294.0	302.0
Total EER at 100% (2)		5.4	5.4	5.6	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.6	5.6
Type of compressor										Screw compressor					
Refrigerant										R134a					
No. of compressors										2					
No. of refrigerant circuits										2					
Sound pressure level (3)	dB(A)	77	77	79	79	80	80	80	79	79	79	79	79	80	80
Sound pressure level (4)	dB(A)	68	69	70	70	71	70	70	70	71	70	69	70	73	73
Power supply	V/Ph/Hz									400/3/50+N					
Length, sound class B	mm	3,534	3,534	3,601	3,601	3,729	4,061	4,361	4,361	4,361	4,657	4,657	4,678	4,678	4,678
Length, sound class A	mm	3,831	3,831	3,831	3,831	4,250	4,336	4,746	4,746	4,746	4,746	4,746	4,746	4,746	4,746
Width	mm	1,398	1,398	1,398	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425
Height, sound class B	mm	1,711	1,711	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,146	2,146	2,146	2,146	2,146
Height, sound class A	mm	1,891	1,891	1,891	1,891	2,182	2,182	2,182	2,182	2,182	2,245	2,245	2,245	2,245	2,245
Weight in operation, sound class B	kg	2,926	2,995	3,577	3,726	4,122	4,602	5,074	5,093	5,112	5,931	6,028	6,075	6,118	6,152
Weight in operation, sound class A	kg	3,254	3,323	3,900	4,053	4,463	4,919	5,519	5,538	5,557	6,376	6,473	6,520	6,563	6,597
(1): Cold water = 12°C/7°C; water temperature at external exchanger outlet = 35°C															
(2): Cold water = 15°C/10°C; water temperature at external exchanger outlet = 40°C															
(3): Sound level at 2m clear distance (sound class B)															
(4): Sound level at 2m clear distance (sound class A)															

Model CGI XXXXX W	6302	6802	7302	7802	8202	9102	9802	10502	11002	12302	14002	15502	17002	
Cooling capacity (1)	kW	633.0	677.0	730.0	782.0	829.0	901.0	976.0	1,045.0	1,108.0	1,226.0	1,391.0	1,549.0	1,711.0
Total power consumption (1)	kW	113.0	121.0	130.0	139.0	148.0	161.0	174.0	184.0	195.0	216.0	244.0	272.0	300.0
Total EER at 100% (1)		5.60	5.60	5.62	5.63	5.60	5.60	5.61	5.68	5.68	5.68	5.70	5.69	5.70
ESEER (2)		6.61	6.66	6.63	6.69	6.67	6.66	6.62	6.64	6.65	6.64	6.67	6.61	6.67
Cooling capacity (3)	kW	669.0	719.0	775.0	830.0	878.0	959.0	1,043.0	1,111.0	1,165.0	1,268.0	1,462.0	1,633.0	1,792.0
Total power consumption (3)	kW	128.0	137.0	147.0	157.0	166.0	182.0	198.0	209.0	221.0	243.0	277.0	308.0	339.0
Total EER at 100% (3)		5.23	5.25	5.27	5.29	5.29	5.27	5.27	5.32	5.27	5.22	5.28	5.30	5.29
Compressor type									Screw compressor					
Refrigerant									R134a					
Number of compressors									2					
Number of refrigerant circuits									2					
Sound pressure level (4)	dB(A)	76	76	78	78	79	79	79	78	78	78	78	78	79
Power supply	V/Ph/Hz								400/3/50					
Length	mm	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,970	4,970	4,970
Width	mm	1,460	1,460	1,460	1,520	1,520	1,520	1,520	1,520	1,620	1,620	1,620	1,620	1,620
Height	mm	2,000	2,000	2,000	2,090	2,090	2,090	2,090	2,240	2,240	2,370	2,410	2,410	2,410
Weight in operation	kg	4,400	4,450	4,500	4,750	4,800	5,100	5,450	6,320	6,360	7,000	7,480	8,000	8,250
(1): Cold water = 12/7°C ; water temperature at external exchanger outlet = 35°C														
(2): ESEER coefficient of seasonal performance in cooling mode according to Eurovent.														
(3): Cold water = 15/10°C ; water temperature at external exchanger outlet = 40°C														
(4): full load, measured at 2m distance, free field conditions														

CyberCool XT CGI

- » Water-cooled chiller with large cooling capacities for indoor installation
- » Rapid, simple installation
- » Electronic expansion valve for precise control
- » Sturdy, self-supporting frame of enamelled, galvanised sheet steel

465 – 1,540 kW

CyberCool XT CGI

- » Water-cooled chiller with large cooling capacities for indoor installation
- » Rapid, simple installation
- » Electronic expansion valve for precise control
- » Sturdy, self-supporting frame of enamelled, galvanised sheet steel
- » Specially developed for applications with cooling towers or hybrid coolers
- » New compressor and new evaporator technology for very high EER
- » Low AT (approx. 1.5 kW) between refrigerant and water

630 – 1,700 kW



STULZ – expertise and partnership for a tailored solution

STULZ chillers are distinguished by their superior quality and reliability. Our comprehensive range of units with cooling capacities from 4 kW to 1,600 kW allows us to offer the ideal solution for every application. Air-conditioning experts support you throughout the design,

implementation, start-up and maintenance of your system.

And in emergencies, too, the international STULZ service organisation ensures speedy assistance and maximum availability – from Rio to New York to Tokyo.



You can rely on STULZ

Expert advice and planning

The foundations for optimum system design and therefore for cost-efficient operation throughout the lifecycle are laid by expert advice and planning.

Here, planning engineers and specialist fitters can count on our STULZ experts, with their 35 years of experience in air-conditioning technology. Through cost-efficiency calculations for CyberCool XT chillers, STULZ provides plant operators with important "Total cost of ownership" information on which to base their decision.

Rapid installation and start-up

CyberCool XT chillers are compact in design and are supplied ready for connection. For the fitter, this means rapid, uncomplicated installation, and the units are also very easy to bring into service, as they are preset at the factory. Should operating parameters need to be adjusted on site, this can be done without any previous knowledge of the system, thanks to plain text operator guidance. In addition, our STULZ specialists are happy to help with start-up and eventual incorporation in existing systems.

No waiting times for customer service

CyberCool XT chillers are manufactured from high-quality materials and components, inspected and tested. If, despite this, a problem should occur, our STULZ Customer Service is available around the clock, thereby ensuring that your system maintains its high operational reliability.

Professional documentation

STULZ supplies professional technical documentation for installation and start-up, planning software for unit configuration plus detailed tender documentation.

- » Expert advice and planning
- » Rapid installation and start-up
- » Customer service without delay
- » Professional documentation

STULZ Company Headquarters

- D** **STULZ GmbH**
Holsteiner Chaussee 283 · 22457 Hamburg
Tel.: +49(40)55 85-0 · Fax: +49(40)55 85 352 · products@stulz.de

STULZ Subsidiaries

- AUS** **STULZ AUSTRALIA PTY. LTD.**
34 Bearing Road · Seven Hills NSW 21 47
Tel.: +61(2)96 74 47 00 · Fax: +61(2)96 74 67 22 · sales@stulz.com.au
- CN** **STULZ AIR TECHNOLOGY AND SERVICES SHANGHAI CO., LTD.**
No. 999 Shen Fu Road, Min Hang District · Shanghai 201108 · P.R. China
Tel.: +86(21)54 83 02 70 · Fax: +86(21)54 83 02 71 · info@stulz.cn
- E** **STULZ ESPAÑA S.A.**
Avenida de los Castillos 1034 · 28918 Leganés (Madrid)
Tel.: +34(91)517 83 20 · Fax: +34(91)517 83 21 · info@stulz.es
- F** **STULZ FRANCE S. A. R. L.**
107, Chemin de Ronde · 78290 Croissy-sur-Seine
Tel.: +33(1)34 80 47 70 · Fax: +33(1)34 80 47 79 · info@stulz.fr
- GB** **STULZ U. K. LTD.**
First Quarter · Blenheim Rd. · Epsom · Surrey KT 19 9 QN
Tel.: +44(1372)74 96 66 · Fax: +44(1372)73 94 44 · sales@stulz.co.uk
- I** **STULZ S.P.A.**
Via Torricelli, 3 · 37067 Valeggio sul Mincio (VR)
Tel.: +39(045)633 16 00 · Fax: +39(045)633 16 35 · info@stulz.it
- IN** **STULZ-CHSPL (INDIA) PVT. LTD.**
006, Jagruti Industrial Estate · Mogul Lane, Mahim · Mumbai - 400 016
Tel.: +91(22)56 66 94 46 · Fax: +91(22)56 66 94 48 · info@stulz.in
- NL** **STULZ GROEP B. V.**
Postbus 75 · 1180 AB Amstelveen
Tel.: +31(20)54 51 111 · Fax: +31(20)64 58 764 · stulz@stulz.nl
- NZ** **STULZ NEW ZEALAND LTD.**
Office 71, 300 Richmond Rd. · Grey Lynn · Auckland
Tel.: +64(9)360 32 32 · Fax: +64(9)360 21 80 · sales@stulz.co.nz
- PL** **STULZ POLSKA SP. Z O.O.**
Budynek Mistral · Al. Jerozolimskie 162 · 02 – 342 Warszawa
Tel.: +48(22)883 30 80 · Fax: +48(22)824 26 78 · info@stulz.pl
- USA** **STULZ AIR TECHNOLOGY SYSTEMS (SATS), INC.**
1572 Tilco Drive · Frederick, MD 21704
Tel.: +1(301)620 20 33 · Fax: +1(301)662 54 87 · info@stulz-ats.com
- ZA** **STULZ SOUTH AFRICA PTY. LTD.**
P.O.Box 15687 · Lambton 1414 · Gauteng
Tel.: +27(11)873 68 06 · Fax: +27(11)873 31 36 · aftersales@stulz.co.za

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