



CGAM

Air-cooled scroll chiller



Customer benefits

- Life cycle effectiveness
- Efficiency and sound level without compromise
- All year round operation
- Extreme reliability and durability
- Wide application flexibility for comfort and process applications to fit the exact requirements
- Ease of installation and serviceability

Main features

- 2 efficiency levels: high or standard
- 3 acoustic versions: standard, low noise or comprehensive acoustic package treatment
- High efficiency scroll compressors
- Trane design low sound level fans mounted on hinges
- Electronic expansion valve
- Brazed plates heat exchangers
- Disconnect switch/transformer
- Water strainer and flow switch
- Powder coated components

Options

- Integrated hydraulic module with or without buffer tank
- Single or double pump package
- Variable frequency drive for pump flow rate adjustment
- Freeze protection control
- Black epoxy condenser coil coating
- Architectural louvered panels

Accessories

- Neoprene isolators
- Grooved pipe connection kit

Tracer™ CH530 Control

Adaptive Control™ microprocessor featuring:

- Easy-to-use operator interface panel
- External auto/stop
- External interlock
- Chilled water pump control
- Ice-making card (optional)
- Chilled water and current-limit remote setpoint card (optional)
- LonTalk®, Modbus®, BACnet® communication capabilities

Energy saving options

- Total heat recovery with up to 80% recovery
- Partial heat recovery (desuperheater)

This description may not include all options and accessories available. For full technical information, visit www.trane.com/litweb or contact your local sales office.

Operating outdoor air temperature range (min./max.) (1)	(°C)	-18/+46
Leaving water temperature range (min./max.) (2)	(°C)	-12/+18
Power supply	(V/Ph/Hz)	400/3/50

CGAM Standard Efficiency Compact		020	023	026	030	035	039	045	050	040	046	052	060
Net cooling capacity (4)	(kW)	55.2	62.5	69.0	79.4	90.8	109.5	121.3	132.9	109.8	126.6	142.8	158.9
Total power input net (4)	(kW)	21.2	23.1	25.6	30.5	34.9	40.5	44.9	51.1	40.7	45.2	51.0	58.9
EER net (4)		2.6	2.7	2.7	2.6	2.6	2.7	2.7	2.6	2.7	2.8	2.8	2.7
Eurovent class		D	C	C	D	D	C	C	D	C	C	C	C
ESEER net (4)		3.1	3.2	3.3	3.5	3.5	3.5	3.5	3.5	3.2	3.4	3.5	3.6
Number of refrigerant circuits		1	1	1	1	1	1	1	1	2	2	2	2
Number of compressors		2	2	2	2	2	2	2	2	4	4	4	4
Sound power level (5)	(dB(A))	89	89	88	89	89	91	91	92	92	92	92	92
Sound pressure level (6)	(dB(A))	57	57	56	57	57	59	59	60	60	59	59	60

Dimensions and weight (operating)

Length	(mm)	2908	2908	2908	2908	2908	3822	3822	3822	2905	2905	2905	2905
Width	(mm)	1301	1301	1301	1301	1301	1301	1301	1301	2266	2266	2266	2266
Height	(mm)	2153	2153	2153	2153	2153	2153	2153	2153	2150	2150	2150	2150
Weight	(kg)	837	854	858	960	973	1129	1189	1248	1485	1526	1552	1734
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	600	600	600	600	600	600	600	600	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	800	800	800	800	800	800	800	800
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	48.3	53.3	58.3	65.5	76.5	90.9	102.4	113.9	95.5	105.5	115.5	129.9
Start-up amps	(A)	170.2	186.2	191.2	206.8	251.8	266.2	311.2	322.7	217.4	238.4	248.4	271.2

CGAM Standard Efficiency Compact		070	080	090	100	110	120	140	150	160	170
Net cooling capacity (4)	(kW)	186.0	221.1	248.0	273.3	295.3	325.7	379.2	405.3	432.1	458.1
Total power input net (4)	(kW)	69.1	80.4	89.5	102.0	107.8	112.3	132.1	144.7	153.8	159.1
EER net (4)		2.7	2.8	2.8	2.7	2.7	2.9	2.9	2.8	2.8	2.9
Eurovent class		D	C	C	D	C	B	C	C	C	C
ESEER net (4)		3.8	3.7	3.8	3.7	3.9	4.0	4.0	4.3	4.0	4.1
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2	2
Number of compressors		4	4	4	4	4	4	6	6	6	6
Sound power level (5)	(dB(A))	93	94	94	94	96	94	94	94	95	95
Sound pressure level (6)	(dB(A))	60	62	62	62	63	61	62	62	63	63

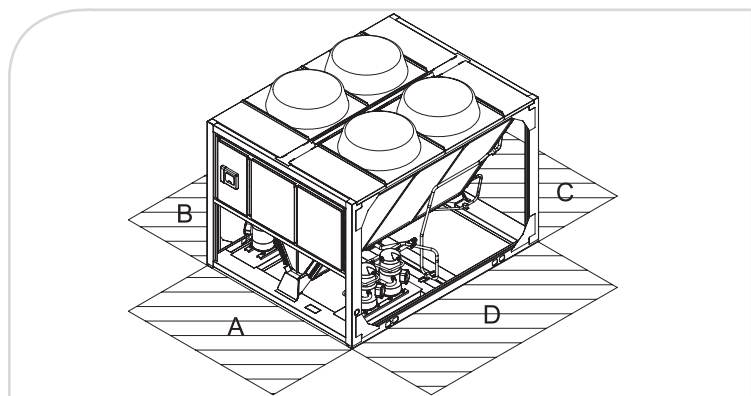
Dimensions and weight (operating)

Length	(mm)	2905	3819	3819	3819	3647	3647	4230	4230	4230	5145
Width	(mm)	2266	2266	2266	2266	2273	2273	2273	2273	2273	2273
Height	(mm)	2150	2150	2150	2150	2344	2344	2344	2344	2344	2344
Weight	(kg)	1775	2034	2165	2283	2475	2597	3035	3063	3153	3407
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	1000	1000	1000	1000	1000	1000
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	152.0	181.4	204.3	227.2	240.6	254.0	313.5	329.6	349.8	363.2
Start-up amps	(A)	327.2	356.6	413.1	436.0	502.7	516.1	522.3	538.4	611.9	625.3

- (1) With low ambient option
- (2) With process cooling options
- (3) At Eurovent conditions: 12/7°C entering/leaving water temperature and 35°C ambient air temperature
- (4) At Eurovent conditions and according to EN 14511
- (5) At Eurovent conditions, with 1pW reference sound power, according to ISO9614
- (6) At 10 m in free field, calculated from the above sound power level according to the formula $L_p = L_w - 10 \log 5$

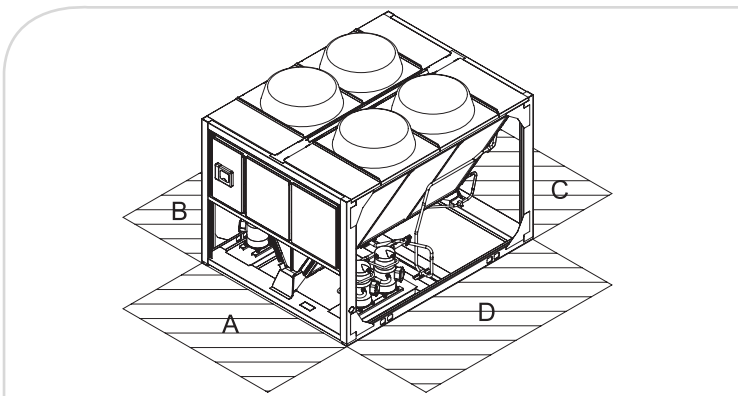


Operating outdoor air temperature range (min./max.) (1)	(°C)	-18/+46
Leaving water temperature range (min./max.) (2)	(°C)	-12/+18
Power supply	(V/Ph/Hz)	400/3/50

CGAM Standard Efficiency Super Quiet		020	023	026	030	035	039	045	050	040	046	052	060
Net cooling capacity (4)	(kW)	53.8	61.8	68.0	77.6	89.4	107.7	119.5	131.1	107.4	125.2	140.3	155.8
Total power input net (4)	(kW)	20.5	22.6	25.8	30.4	34.9	40.2	44.9	51.4	40.5	44.1	51.2	59.9
EER net (4)		2.6	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.7	2.8	2.7	2.6
Eurovent class		D	C	D	D	D	D	D	D	D	C	C	D
ESEER net (4)		3.4	3.4	3.5	3.6	3.6	3.6	3.7	3.5	3.5	3.5	3.7	2.6
Number of refrigerant circuits		1	1	1	1	1	1	1	1	2	2	2	2
Number of compressors		2	2	2	2	2	2	2	2	4	4	4	4
Sound power level (5)	(dB(A))	85	85	85	85	86	88	88	88	88	88	88	88
Sound pressure (6)	(dB(A))	53	53	53	53	54	56	56	56	56	56	56	56
Dimensions and weight (operating)													
Length	(mm)	2908	2908	2908	2908	2908	3822	3822	3822	2905	2905	2905	2905
Width	(mm)	1301	1301	1301	1301	1301	1301	1301	1301	2266	2266	2266	2266
Height	(mm)	2153	2153	2153	2153	2153	2153	2153	2153	2150	2150	2150	2150
Weight	(kg)	837	854	858	960	973	1129	1189	1248	1485	1526	1552	1734
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	600	600	600	600	600	600	600	600	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	800	800	800	800	800	800	800	800
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Electrical data													
Maximum amps	(A)	50.1	55.1	60.1	67.3	78.3	93.6	105.1	116.6	99.1	109.1	119.1	133.5
Start-up amps	(A)	172.0	188.0	193.0	208.6	253.6	268.9	313.9	325.4	221.0	242.0	252.0	274.8

CGAM Standard Efficiency Super Quiet		070	080	090	100	110	120	140	150	160	170
Net cooling capacity (4)	(kW)	183.2	217.2	244.5	268.8	290.4	320.1	372.6	398.0	422.7	451.5
Total power input net (4)	(kW)	69.1	79.9	88.9	101.8	108.8	113.5	134.0	147.4	156.5	160.1
EER net (4)		2.7	2.7	2.8	2.6	2.7	2.8	2.8	2.7	2.7	2.8
Eurovent class		D	C	C	D	D	C	C	C	C	C
ESEER net (4)		2.7	2.7	2.8	2.6	2.7	2.8	2.8	2.7	2.7	2.8
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2	2
Number of compressors		4	4	4	4	4	4	6	6	6	6
Sound power level (5)	(dB(A))	89	91	91	90	92	91	91	90	92	92
Sound pressure level (6)	(dB(A))	57	59	59	58	60	59	59	58	59	60
Dimensions and weight (operating)											
Length	(mm)	2905	3819	3819	3819	3647	3647	4230	4230	4230	5145
Width	(mm)	2266	2266	2266	2266	2273	2273	2273	2273	2273	2273
Height	(mm)	2150	2150	2150	2150	2344	2344	2344	2344	2344	2344
Weight	(kg)	1775	2034	2165	2283	2475	2597	3035	3063	3153	3407
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	1000	1000	1000	1000	1000	1000
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Electrical data											
Maximum amps	(A)	155.6	186.8	209.7	232.6	246.0	259.4	320.7	335.0	357.0	370.4
Start-up amps	(A)	330.8	362.0	418.5	441.4	508.1	521.5	529.5	543.8	619.1	632.5

- (1) With low ambient option
(2) With process cooling options
(3) At Eurovent conditions: 12/7°C entering/leaving water temperature and 35°C ambient air temperature
(4) At Eurovent conditions and according to EN 14511
(5) At Eurovent conditions, with 1pW reference sound power, according to ISO9614
(6) At 10 m in free field, calculated from the above sound power level according to the formula $L_p = L_w - 10 \log 5$



Operating outdoor air temperature range (min./max.) (1)	(°C)	-18/+46
Leaving water temperature range (min./max.) (2)	(°C)	-12/+18
Power supply	(V/Ph/Hz)	400/3/50

CGAM Standard Efficiency Comprehensive Acoustic Package		020	023	026	030	035	039	045	050	040	046	052	060
Net cooling capacity (4)	(kW)	53.1	60.0	68.2	74.8	91.4	105.6	105.7	121.4	135.4	153.4	140.3	155.8
Total power input net (4)	(kW)	19.8	22.1	26.0	29.6	35.2	39.7	39.1	43.8	50.9	58.3	51.2	59.9
EER net (4)		2.7	2.7	2.6	2.5	2.6	2.7	2.7	2.8	2.7	2.6	2.7	2.6
Eurovent class		D	C	D	D	D	D	C	C	D	D	C	D
ESEER net (4)		3.8	3.9	3.9	3.9	4.0	4.0	3.9	4.0	4.0	4.1	3.7	2.6
Number of refrigerant circuits		1	1	1	1	1	1	2	2	2	2	2	2
Number of compressors		2	2	2	2	2	2	4	4	4	4	4	4
Sound power level (5)	(dB(A))	78	78	78	78	82	83	81	81	81	81	88	88
Sound pressure (6)	(dB(A))	46	46	46	47	49	51	49	49	49	49	56	56

Dimensions and weight (operating)

Length	(mm)	2908	2908	2908	2908	3822	3822	2905	2905	2905	2905	2905	2905
Width	(mm)	1301	1301	1301	1301	1301	1301	2266	2266	2266	2266	2266	2266
Height	(mm)	2153	2153	2153	2153	2153	2153	2150	2150	2150	2150	2150	2150
Weight	(kg)	871	888	898	1013	1160	1187	1553	1594	1620	1851	1552	1734
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	600	600	600	600	600	600	1000	1000	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	800	800	800	800	800	800	800	800
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	44.2	49.2	54.2	61.4	73.7	84.8	87.3	97.3	107.3	121.7	119.1	133.5
Start-up amps	(A)	166.1	182.1	187.1	202.7	249.0	260.0	209.2	230.2	240.2	263.0	252.0	274.8

CGAM Standard Efficiency Comprehensive Acoustic Package		070	080	090	100	110	120	140	150	160
Net cooling capacity (4)	(kW)	180.4	213.0	236.5	262.5	288.3	318.0	369.7	393.1	420.6
Total power input net (4)	(kW)	68.8	78.0	88.9	100.2	106.8	111.6	133.9	147.2	152.4
EER net (4)		2.6	2.7	2.7	2.6	2.7	2.9	2.8	2.7	2.8
Eurovent class		D	C	D	D	C	C	C	D	C
ESEER net (4)		4.1	4.3	4.4	4.4	4.3	4.3	4.7	4.6	4.5
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2
Number of compressors		4	4	4	4	4	4	6	6	6
Sound power level (5)	(dB(A))	84	85	85	85	87	86	85	85	86
Sound pressure level (6)	(dB(A))	52	53	53	53	54	53	52	52	54

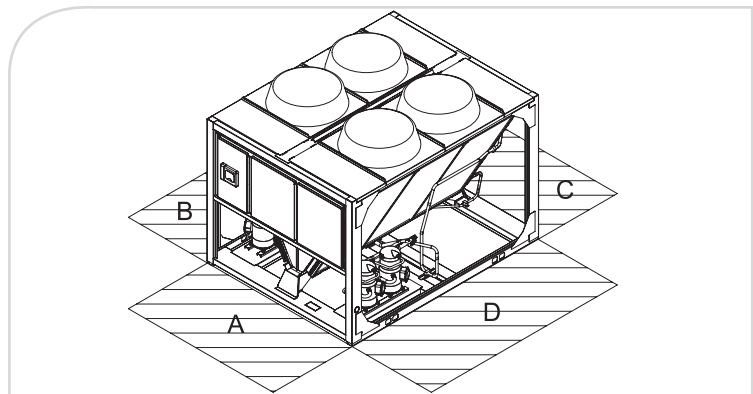
Dimensions and weight (operating)

Length	(mm)	3819	3819	3647	4230	4230	4230	5145	5145	5145
Width	(mm)	2266	2266	2273	2273	2273	2273	2273	2273	2273
Height	(mm)	2150	2150	2344	2344	2344	2344	2344	2344	2344
Weight	(kg)	2076	2151	2471	2664	2754	2898	3436	3561	3651
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Clearance C	(mm)	800	800	1000	1000	1000	1000	1000	1000	1000
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	146.5	169.1	192.0	214.9	231.0	244.4	297.1	320.0	336.1
Start-up amps	(A)	321.7	344.3	400.8	423.7	493.1	506.5	505.9	528.8	598.2

- (1) With low ambient option
- (2) With process cooling options
- (3) At Eurovent conditions: 12/7°C entering/leaving water temperature and 35°C ambient air temperature
- (4) At Eurovent conditions and according to EN 14511
- (5) At Eurovent conditions, with 1pW reference sound power, according to ISO9614
- (6) At 10 m in free field, calculated from the above sound power level according to the formula $L_p = L_w - 10 \log 5$



Operating outdoor air temperature range (min./max.) (1)	(°C)	-18/+46
Leaving water temperature range (min./max.) (2)	(°C)	-12/+18
Power supply	(V/Ph/Hz)	400/3/50

CGAM HE Compact		020	023	026	030	035	040	046	052	060
Net cooling capacity	(kW)	58.1	63.3	73.5	83.6	96.6	112.3	128.1	142.9	163.3
Total power input net	(kW)	18.6	20.8	24.2	27.5	32.3	36.6	41.7	47.5	53.0
EER net		3.1	3.0	3.0	3.0	3.0	3.1	3.1	3.0	3.1
Eurovent class		A	B	B	B	B	B	B	B	B
ESEER net		3.9	3.9	4.1	3.9	4.0	3.8	3.9	4.2	4.0
Number of refrigerant circuits		1	1	1	1	1	2	2	2	2
Number of compressors		2	2	2	2	2	4	4	4	4
Sound power level (5)	(dB(A))	86	86	86	88	88	89	89	89	91
Sound pressure (6)	(dB(A))	54	54	54	55	56	57	57	57	58

Dimensions and weight (operating)

Length	(mm)	2908	2908	2908	3822	3822	2905	2905	2905	3819
Width	(mm)	1301	1301	1301	1301	1301	2266	2266	2266	2266
Height	(mm)	2153	2153	2153	2153	2153	2150	2150	2150	2150
Weight	(kg)	870	874	896	1131	1149	1540	1571	1582	2041
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	600	600	600	600	600	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	800	800	800	800	800
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	167.6	183.6	188.6	204.2	251.3	212.2	233.2	243.2	266.0
Start-up amps	(A)	45.7	50.7	55.7	62.9	76.0	90.3	100.3	110.3	124.7

CGAM HE Compact		070	080	090	100	110	120	140	150	160
Net cooling capacity (4)	(kW)	193.2	223.2	253.8	282.2	310.6	331.2	390.3	417.4	441.4
Total power input net (4)	(kW)	63.3	72.9	80.8	90.7	98.6	108.2	126.3	134.7	144.3
EER net (4)		3.1	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.1
Eurovent class		B	B	A	A	A	B	B	A	B
ESEER net (4)		4.1	4.2	4.5	4.1	4.3	4.3	4.4	4.2	4.2
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2
Number of compressors		4	4	4	4	4	4	6	6	6
Sound power level (5)	(dB(A))	91	91	91	92	92	93	93	94	94
Sound pressure level (6)	(dB(A))	59	59	59	60	60	61	61	61	62

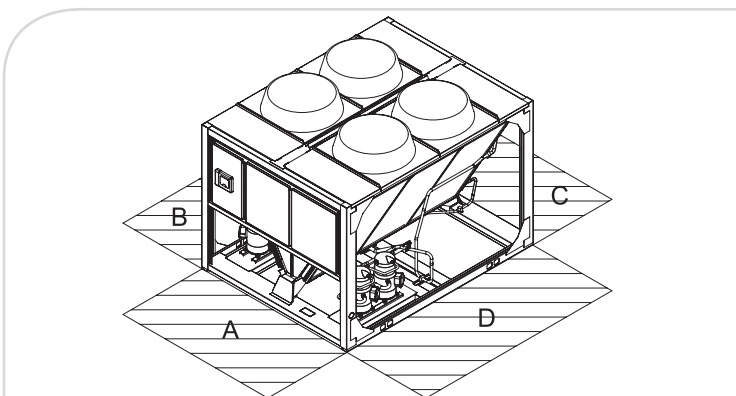
Dimensions and weight (operating)

Length	(mm)	3819	3647	3647	4230	4230	4230	5145	6060	6060
Width	(mm)	2266	2273	2273	2273	2273	2273	2273	2273	2273
Height	(mm)	2150	2344	2344	2344	2344	2344	2344	2344	2344
Weight	(kg)	2078	2378	2503	2804	2821	2821	3403	3881	3881
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Clearance C	(mm)	800	1000	1000	1000	1000	1000	1000	1000	1000
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	326.2	348.8	405.3	432.4	499.1	512.5	516.1	539.0	609.9
Start-up amps	(A)	151.0	173.6	196.5	223.6	237.0	250.4	307.3	330.2	347.8

- (1) With low ambient option
(2) With process cooling options
(3) At Eurovent conditions: 12/7°C entering/leaving water temperature and 35°C ambient air temperature
(4) At Eurovent conditions and according to EN 14511
(5) At Eurovent conditions, with 1pW reference sound power, according to ISO9614
(6) At 10 m in free field, calculated from the above sound power level according to the formula $L_p = L_w - 10 \log 5$



Operating outdoor air temperature range (min./max.) (1)	(°C)	-18/+52
Leaving water temperature range (min./max.) (2)	(°C)	-12/+18
Power supply	(V/Ph/Hz)	400/3/50

CGAM HE Super Quiet		020	023	026	030	035	040	046	052	060
Net cooling capacity (4)	(kW)	57.7	63.3	73.5	81.5	96.6	111.9	128.1	142.9	163.6
Total power input net (4)	(kW)	18.7	20.8	24.2	26.9	32.4	36.8	41.7	47.5	53.3
EER net (4)		3.1	3.1	3.0	3.0	3.0	3.0	3.1	3.0	3.1
Eurovent class		B	B	B	B	B	B	B	B	B
ESEER net (4)		3.9	4.0	4.2	4.0	4.0	3.8	4.0	4.2	4.1
Number of refrigerant circuits		1	1	1	1	1	2	2	2	2
Number of compressors		2	2	2	2	2	4	4	4	4
Sound power level (5)	(dB(A))	81	81	81	82	84	84	84	84	85
Sound pressure level (6)	(dB(A))	49	49	49	50	52	52	51	52	53

Dimensions and weight (operating)

Length	(mm)	2908	2908	2908	3822	3822	2905	2905	2905	3819
Width	(mm)	1301	1301	1301	1301	1301	2266	2266	2266	2266
Height	(mm)	2153	2153	2153	2153	2153	2150	2150	2150	2150
Weight	(kg)	870	874	896	1131	1149	1540	1571	1582	2041
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	600	600	600	600	600	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	800	800	800	800	800
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	183.6	167.6	188.6	204.2	251.3	212.2	233.2	243.2	263.9
Start-up amps	(A)	50.7	45.7	55.7	62.9	76.0	90.3	100.3	110.3	122.6

CGAM HE Super Quiet		070	080	090	100	110	120	140	150	160
Net cooling capacity (4)	(kW)	192.8	224.2	254.1	282.5	310.6	331.2	389.9	417.8	441.1
Total power input net (4)	(kW)	63.4	72.3	80.4	90.3	98.3	108.2	126.2	135.2	143.7
EER net (4)		3.0	3.1	3.2	3.1	3.2	3.1	3.1	3.1	3.1
Eurovent class		B	A	A	A	A	B	B	B	B
ESEER net (4)		4.2	4.3	4.6	4.3	4.4	4.4	4.5	4.5	4.3
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2
Number of compressors		4	4	4	4	4	4	6	6	6
Sound power level (5)	(dB(A))	87	88	88	88	89	90	90	89	90
Sound pressure level (6)	(dB(A))	55	56	56	56	57	58	57	57	58

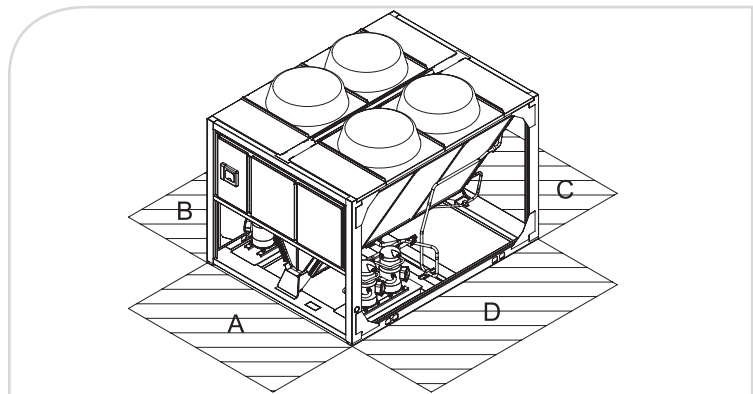
Dimensions and weight (operating)

Length	(mm)	3819	3647	3647	4230	4230	4230	5145	6060	6060
Width	(mm)	2266	2273	2273	2273	2273	2273	2273	2273	2273
Height	(mm)	2150	2344	2344	2344	2344	2344	2344	2344	2344
Weight	(kg)	2078	2378	2503	2804	2821	2821	3403	3791	3881
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Clearance C	(mm)	800	1000	1000	1000	1000	1000	1000	1000	1000
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000

Electrical data

Maximum amps	(A)	326.2	348.8	405.3	432.4	499.1	512.5	516.1	539.0	609.9
Start-up amps	(A)	151.0	173.6	196.5	223.6	237.0	250.4	307.3	330.2	347.8

- (1) With low ambient option
- (2) With process cooling options
- (3) At Eurovent conditions: 12/7°C entering/leaving water temperature and 35°C ambient air temperature
- (4) At Eurovent conditions and according to EN 14511
- (5) At Eurovent conditions, with 1pW reference sound power, according to ISO9614
- (6) At 10 m in free field, calculated from the above sound power level according to the formula $L_p = L_w - 10 \log S$

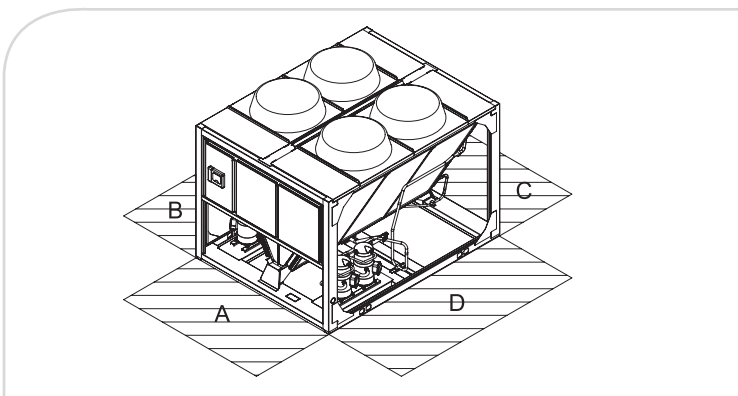


Operating outdoor air temperature range (min./max.) (1)	(°C)	-18/+52
Leaving water temperature range (min./max.) (2)	(°C)	-12/+18
Power supply	(V/Ph/Hz)	400/3/50

CGAM HE Comprehensive Acoustic Package		020	023	026	030	035	040	046	052	060
Net cooling capacity (4)	(kW)	56.7	65.1	73.0	79.6	94.1	111.4	126.0	147.1	163.6
Total power input net (4)	(kW)	18.6	21.3	23.9	27.3	32.8	36.6	42.4	47.3	54.0
EER net (4)		3.0	3.1	3.1	2.9	2.9	3.0	3.0	3.1	3.0
Eurovent class		B	B	B	B	C	B	B	A	B
ESEER net (4)		4.1	4.3	4.1	4.1	4.2	4.1	4.2	4.3	4.3
Number of refrigerant circuits		1	1	1	1	1	2	2	2	2
Number of compressors		2	2	2	2	2	4	4	4	4
Sound power level (5)	(dB(A))	78	78	79	80	81	81	81	82	83
Sound pressure level (6)	(dB(A))	46	46	47	48	49	49	49	50	50
Dimensions and weight (operating)										
Length	(mm)	2908	2908	3822	3822	3822	2905	2905	3819	3819
Width	(mm)	1301	1301	1301	1301	1301	2266	2266	2266	2266
Height	(mm)	2153	2153	2153	2153	2153	2150	2150	2150	2150
Weight	(kg)	904	926	1053	1168	1187	1631	1639	1888	2131
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	600	600	600	600	600	1000	1000	1000	1000
Clearance C	(mm)	800	800	800	800	800	800	800	800	800
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Electrical data										
Maximum amps	(A)	166.1	182.1	188.4	204.0	249.0	209.2	230.2	242.9	265.7
Start-up amps	(A)	44.2	49.2	55.5	62.7	73.7	87.3	97.3	110.0	124.4

CGAM HE Comprehensive Acoustic Package		070	080	090	100	110	120	140	150	160
Net cooling capacity (4)	(kW)	190.0	225.0	254.8	280.4	301.4	330.9	389.6	412.6	431.4
Total power input net (4)	(kW)	64.6	70.1	78.9	90.8	98.2	105.7	124.5	136.2	146.7
EER net (4)		2.9	3.2	3.2	3.1	3.1	3.1	3.1	3.0	2.9
Eurovent class		B	A	A	B	B	A	A	B	B
ESEER net (4)		4.4	4.8	4.7	4.5	4.6	4.5	4.7	4.5	4.4
Number of refrigerant circuits		2	2	2	2	2	2	2	2	2
Number of compressors		4	4	4	4	4	4	6	6	6
Sound power level (5)	(dB(A))	84	83	83	84	85	86	85	85	86
Sound pressure level (6)	(dB(A))	52	50	51	51	52	54	53	53	54
Dimensions and weight (operating)										
Length	(mm)	3819	4230	4230	4230	5145	5145	6060	6060	6060
Width	(mm)	2266	2273	2273	2273	2273	2273	2273	2273	2273
Height	(mm)	2150	2344	2344	2344	2344	2344	2344	2344	2344
Weight	(kg)	2168	2596	2804	2918	3172	3279	3941	4035	4035
Clearance A	(mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Clearance B	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Clearance C	(mm)	800	1000	1000	1000	1000	1000	1000	1000	1000
Clearance D	(mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Electrical data										
Maximum amps	(A)	321.7	344.3	403.5	426.4	493.1	509.2	511.3	534.2	600.9
Start-up amps	(A)	146.5	169.1	194.7	217.6	231.0	247.1	302.5	325.4	338.8

- (1) With low ambient option
(2) With process cooling options
(3) At Eurovent conditions: 12/7°C entering/leaving water temperature and 35°C ambient air temperature
(4) At Eurovent conditions and according to EN 14511
(5) At Eurovent conditions, with 1pW reference sound power, according to ISO9614
(6) At 10 m in free field, calculated from the above sound power level according to the formula $L_p = L_w - 10 \log 5$



Save energy with total or partial heat recovery factory-fitted options on CGAM

- Reduced operating cost
- Preheat sanitary water (for commercial buildings) or kitchen and laundries water (in hotels and resorts)
- Reduced carbon footprint

Total heat recovery - model CGAM HE compact

Unit size	Unit power input (1) (kW)	Cooling capacity in cooling (1) (kW)	Heating capacity (2) (kW)	Heat recovered (2) (%)	Maximum hot water temperature (°C)
070	63.8	194.4	146.1	75	60
080	73.1	225.4	169.6	75	60
090	81	255.6	182.2	71	60
100	91	284.1	193.7	68	60
110	98.8	312.9	218.5	70	60
120	108.6	333.7	228.2	68	60
140	126.6	393.4	271.1	69	60
150	134.7	421.2	282.0	67	60
160	143.9	445.5	311.4	70	60

Partial heat recovery - model CGAM HE compact

Unit size	Unit power input (1) (kW)	Cooling capacity in cooling (1) (kW)	Heating capacity (2) (kW)	Heat recovered (2) (%)	Maximum hot water temperature (°C)
070	64.0	194.1	59.3	31	60
080	74.3	224.7	60.6	27	60
090	82.3	254.9	75.4	30	60
100	92.4	283.4	77.4	27	60
110	100.3	312.2	89.2	29	60
120	110.2	332.6	101.5	31	60
140	128.6	392.4	115.1	29	60
150	136.8	420.5	116.2	28	60
160	146.2	444.4	127.4	29	60

(1) At Eurovent conditions: 12/7°C entering/leaving water temperature and 35°C ambient air temperature

(2) At 40/45°C entering/leaving water temperature