



Rinnai - R454B Commercial and Industrial Heat Pumps

Rinnai

COMMERCIAL AND INDUSTRIAL HEAT PUMPS R454B

WATER CHILLERS &
REVERSIBLE HEAT PUMPS
AIR/WATER FROM 40 TO 650 KW

- Refrigerant R454B: GWP = 466 (-78% R410A / -31% R32)
- Very high SEASONAL EFFICIENCY in cold and heat
- High modulation of the power delivered
- Wide refrigeration and hydronic configurability
- Small footprint
- High efficiencies at partial loads
- Reduced quantities of refrigerant
- Maximum accessibility to the refrigeration circuit compartment



Introducing Rinnai's High-Efficiency Chillers and Heat Pumps

Rinnai's latest series of R454B large commercial and industrial chillers and heat pumps are engineered for optimal performance in commercial and industrial air conditioning and heating systems.

These high-efficiency units are designed to deliver exceptional results in terms of Total Life Cycle (TLC) cost reduction. By prioritising the use of renewable energy sources, they support top-tier energy classification ratings and enhance overall building performance in alignment with leading global green building standards such as LEED® and BREEAM®.

The series is fully compliant with the Minimum Energy Performance Standards (MEPS) outlined in the ECODESIGN Regulation (EU) No. 2016/2281, and meets all key energy efficiency benchmarks including SEER, SEPR, and SCOP. This ensures suitability across a wide range of applications and environments.

In terms of acoustic performance, the units are thoughtfully designed to minimise noise emissions, particularly by effectively isolating the compressor section. Rinnai is simplifying heat pump design with (SPF) Seasonal Performance Factors. SPF helps establish the true system performance including pumps, cylinders and ancillaries. For more information about SPF modelling scan the QR Code.

TELL ME
MORE
ABOUT
SPF



VERSIONS

Available scan
QR Code for
more details



ACCESSORIES

Available scan
QR Code for a
Rinnai expert to
explain more



APPLICATIONS



Industrial



Sports facilities



Airports / Railway
stations



Data Centres



Cinema /
Theatres



Hospitals
/Nursing homes



Catering



Supermarkets



Shops



Care
Homes



Schools and Institutes



Multi-family dwellings



Hotels



Offices



Marine and Offshore
Power Plant

- Water cooler only
- Reversible water chiller
- Reversible heat pump
- Reversible heat pump with augmented temperature difference at user exchanger in heating mode
- Silenced up to -6.8 dB(A) vs standard
- Super silent up to -9.2 dB(A) vs standard
- Partial recovery
- Marine type Onshore/Offshore
- 1/2 low head pump (10-15m)
- 1/2 high head pump (20-25m)
- 1/2 low head pump (10-15m) + Buffer tank
- 1/2 high head pump (20-25m) + Buffer tank
- Inverter pumps with constant pressure operation

Rinnai R454B Commercial and Industrial Heat Pumps

R454B: A Next-Generation Low-GWP Refrigerant

R454B is a zeotropic refrigerant blend composed of 69% R-32 and 31% R-1234yf, developed as a low Global Warming Potential (GWP) alternative to R-410A for use in air conditioning and heating systems operating in heat pump mode with volumetric displacement.

Environmental Performance:

With a GWP of 466 (IPCC AR5), R454B offers a 78% reduction compared to R-410A (GWP 2088) and a 31% reduction compared to R-32 (GWP 675), while maintaining zero ozone depletion potential (ODP = 0).

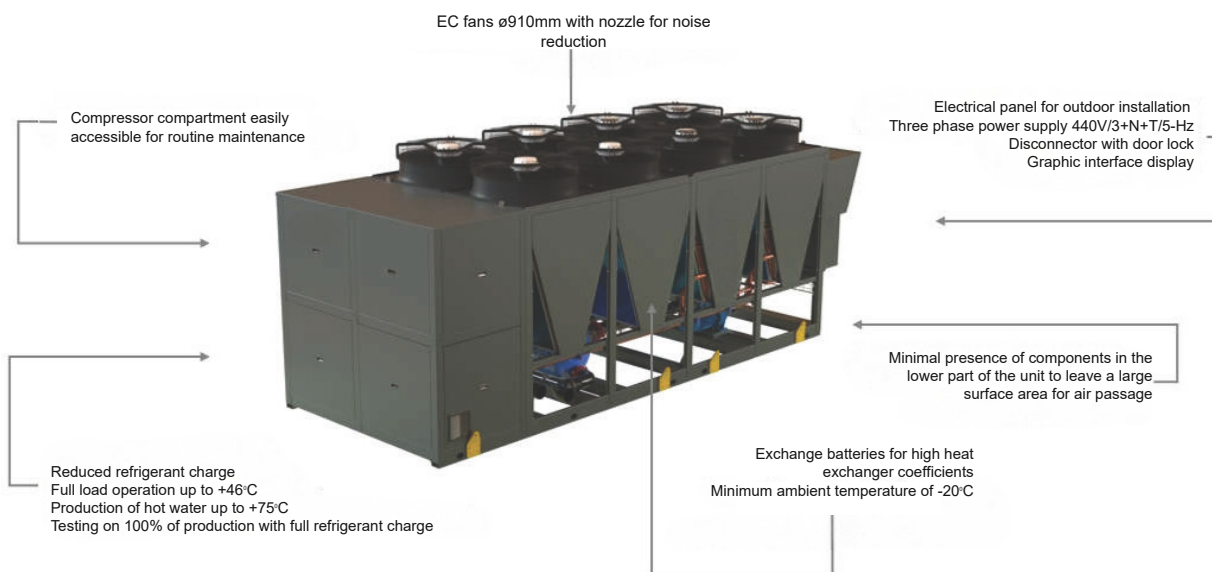
Safety and Classification:

R454B is classified as an A2L refrigerant under ISO 817—non-toxic, odourless, and with low flammability. It is categorised as a Group 1 fluid under the Pressure Equipment Directive (PED).

Efficiency and Sustainability:

The refrigerant requires 30% less charge than R-410A, contributing to a significant 84.4% reduction in overall carbon footprint (measured in kg CO₂ equivalent).

Main components



Structure

- Small footprint with easy access
- Monobloc load-bearing structure in painted galvanized steel
- RAL7012 epoxy painting
- Suitable for outdoor installation
- Corrosion resistance
- Prepared for the insertion of vibration dampers
- Prepared with lifting eyebolts

Refrigeration circuit

- SCROLL compressors in tandem and/or trio
- Low GWP refrigerant gas 466: R454B
- Microtube air exchanger : Ø 5 mm
- Micro-channel air exchanger
- Single circuit plate evaporator for greater reliability
- Electronic expansion valve gas leak sensor present as standard

Aeraulic circuit

- Fans Ø 910 mm EC
- Batteries with multi-V geometry
- Aeraulic compartment can be inspected for maintenance
- Noise control for night hours

Hydraulic circuit

- Standard setup with evaporator only
- Suitable for operation with glycol up to 40%
- UV-resistant pipe insulation
- Prepared for monobloc parallel free- cooling version

Plumbing accessories

- 1/2 low/high head pumps
- Inverter pumps with constant pressure operation
- Inertial tank
- Pipes in AISI304 or AISI316 stainless steel
- Water pressure gauges upstream and downstream of the pump(s).
- Air vent valve
- Vacuum/ vacuum breaker valves
- Automatic loading group
- Water filter (supplied)

Refrigerator accessories

- Refrigerant pressure gauges
- Tandem/Trio suction and delivery taps

Electrical accessories

- Antifreeze resistance
- Integrative resistances Relay for managing 1/2 external pumps
- Double set point from digital input
- Variable set point from analogue input
- Soft starter compressors
- Compressor power factor correction device
- Remote user terminal
- BMS network cards

Mechanical accessories

- Rubber vibration dampers
- Battery protection filters

Technical data R454B – Water chiller

MODEL			45.1	55.1	65.1	90.1	110.1	130.1	160.1	190.1	220.2	250.2	320.2	390.2	430.2	480.2	520.2	540.2	600.2	650.2
Refrigeration yield	(1)	kW	41.6	53.5	59.4	87.1	105.0	123.0	158.0	188.0	209.0	245.0	313.0	377.0	417.0	465.0	511.0	519.0	565.0	623.0
Total electrical power	(1)	kW	12.9	16.1	18.3	25.6	32.2	39.5	48.1	59.1	64.6	78.5	96.0	121.0	127.0	145.0	164.0	159.0	178.0	191.0
EEA (UNI EN 14511-22)	(1)		3.2	3.3	3.3	3.4	3.3	3.1	3.3	3.2	3.3	3.1	3.3	3.1	3.3	3.2	3.1	3.3	3.2	3.3
SEER	(2)		4,4	4,2	4,3	4,7	4,7	4,6	4,7	4,4	4,7	4,6	4,8	4,7	4,6	4,6	4,7	4,7	4,7	4,9
ηs	(2)	%	174	166	168	186	184	179	184	175	187	181	187	185	182	183	184	184	187	194
SEPR HT	(3)		6.4	5.5	5.3	5.8	5.7	5.4	5.7	5.5	5.7	5.5	5.7	5,6	5.8	5.7	5.5	5.8	5.8	5.9
Compressors																				
Number of circuits		no	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Number of compressors		no	2	2	2	2	2	2	2	2	4	4	4	5	4	5	6	5	6	6
Minimum partialization		%	50%	50%	44%	40%	38%	32%	41%	45%	19%	16%	33%	22%	25%	18%	17%	20%	18%	17%
Refrigerant charge		kg	3.8	4.9	5.4	7.9	9,5	11,2	14,4	17,1	19,0	22,3	28,5	34,3	37,9	42,3	46,5	47,2	51,4	56,6
Tons CO ₂ eq		t,eq	1,8	2,3	2,5	3,7	4,4	5,2	6,7	8,0	8,9	10,4	13,3	16,0	17,7	19,7	21,6	22,0	23,9	26,4
Frequency of checks (Reg. 573/2024)			Free									24 months								
Hydronics																				
Nominal water flow		m ³ /h	7.2	9.2	10.2	15.0	18.1	21.2	27.2	32.3	35.9	42.1	53.8	64.8	71.7	80.0	87.9	89.3	97.2	107.2
Water pressure		kPa	31	28	31	33	29	32	30	29	32	31	30	33	32	31	30	33	31	33
H Low head pump		m	19	18	18	16	16	15	15	14	19	18	16	14	16	15	14	18	17	15
H High head pump		m	22	21	21	22	22	21	27	27	26	24	28	28	25	23	22	31	30	28
Tank capacity		dm ³	150	150	150	200	200	200	250	250	300	300	300	300	300	300	300	600	600	600
Hydraulic diameters		"	1"1/2	1"1/2	1"1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	4"	4"	5"	5"	5"	5"	5"	5"
Hydraulic diameters		DN	40	40	40	65	65	65	65	65	80	80	100	100	125	125	125	125	125	125
Air conditioning																				
Type of fans			Axial EC																	
Fan diameter		OR	910																	
Number of fans		no	1	1	1	2	2	2	3	3	4	4	6	6	8	8	8	10	10	12
Air flow		m ³ /h	23000	23000	23000	46000	46000	46000	69000	69000	92000	92000	138000	138000	184000	184000	184000	230000	230000	276000
Acoustics																				
Sound Power Level	(5)	dBA	86	86	86	88	88	88	90	90	91	91	93	93	95	95	95	97	97	98
Dimensions																				
Height		mm	1973	1973	1973	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444
Width		mm	1099	1099	1099	1100	1100	1100	1100	1100	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240
Length		mm	2592	2592	2592	3043	3043	3043	4113	4113	3942	3942	5076	5076	6210	6210	6210	7344	7344	8476
Power supply			400 / 3 / 50																	
Max absorbed power (FLI)		kW	20	27	30	44	55	62	83	95	110	124	163	189	216	235	254	270	289	324
Max absorbed power (FLA)		TO	42	47	51	75	91	104	141	159	182	208	269	318	355	391	427	444	480	533
Max starting current (MIC)		TO	121	148	170	245	248	364	391	373	339	468	483	578	569	605	687	658	694	747

1 - External air temperature equal to 35°C and exchanger water inlet-outlet temperature on the user side equal to 12-7°C. Values compliant with EN 14511-2022

2 - User side exchanger inlet/outlet water temperature 12/7°C (low temperature application), with reference to regulation 2016/2281 and standard EN 14825.

3 – Exchanger inlet/outlet water temperature on user side 12/7°C, with reference to regulation 2016/2281 and standard EN 14825

5 - Unit operating at nominal power, without accessories of any kind - external air temperature 35°C and exchanger and user water inlet/outlet temperature equal to 12/7°C. Values according to ISO 3744

Technical data R454B – Reversible water chiller

MODEL			45.1	55.1	65.1	90.1	110.1	130.1	160.1	190.1	220.2	250.2	320.2	390.2	430.2	480.2	520.2	540.2	600.2	650.2
Refrigeration yield	(1)	kW	39.3	50.4	56.4	82.6	98.0	116.0	148.0	177.0	196.0	231.0	294.0	352.0	394.0	430.0	473.0	490.0	530.0	590
Electrical power absorbed	(1)	kW	13.9	17.2	19.7	27.3	34.7	42.7	52.1	64.5	69.2	85.4	103.0	132.0	135.0	158.0	178.0	170.0	192.0	204
EER (UNI EN 14511-22)	(1)		2.83	2.93	2.86	3.03	2.82	2.72	2.84	2.74	2.83	2.70	2.85	2.67	2.92	2.72	2.66	2.88	2.76	2.9
Thermal yield	(2)	kW	44.9	56.4	62.5	92.6	111.0	131.0	166.0	194.0	223.0	261.0	334.0	400.0	443.0	489.0	537.0	556.0	606.0	677
Electrical power absorbed	(2)	kW	13.9	16.2	18.3	26.3	33.5	39.5	52.1	60.6	66.7	79.0	99.8	122.0	135.0	148.0	165.0	169.0	184.0	200
COP (UNI EN 14511-22)	(2)		3.23	3.48	3.42	3.52	3.31	3.32	3.19	3.20	3.34	3.30	3.35	3.28	3.28	3.30	3.25	3.29	3.29	3.38
SCOP	(4)		3,72	3,96	4,06	4,20	4,18	4,06	4,05	3,99	4,24	3,81	4,24	3,84	4,11	4,15	3,76	4,15	3,71	4,27
ηs		%	145,6	155,3	159,6	165,0	164,1	159,3	159,0	156,6	166,6	149,4	166,6	150,6	161,5	163,0	147,4	163,2	147,4	167,8
Compressors																				
Number of circuits		no	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Number of compressors		no	2	2	2	2	2	2	2	2	4	4	4	5	4	5	6	5	6	6
Minimum bias		%	50%	50%	44%	40%	38%	32%	41%	45%	19%	16%	33%	22%	25%	18%	17%	20%	18%	17%
Refrigerant charge		kg	9	11	12	18	21	25	32	37	42	50	63	76	84	93	102	106	115	129
Tons CO ₂ ,eq		t,eq	4,0	5,0	5,5	8,2	9,8	11,6	14,7	17,2	19,7	23,1	29,6	35,4	39,2	43,3	47,5	49,2	53,7	59,9
Frequency of checks (Reg. 573/2024)			Free					24 months												
Hydronics																				
Nominal water flow rate		m ³ /h	7.7	9.7	10.8	15.9	19.1	22.5	28.6	33.4	38.4	44.9	57.4	68.8	76.2	84.1	92.4	95.6	104.2	116.4
Water pressure drops		kPa	38	37	41	42	38	41	40	39	41	40	38	42	41	41	40	42	39	41
H Low head pump		m	17.8	17.1	16.6	15.3	14.7	13.7	14.2	13.0	17.9	16.8	15.0	13.0	14.7	14.0	13.0	12.5	12.1	14.5
H High head pump		m	21	21	20	21	21	20	26	26	25	23	27	27	24	22	21	31	30	28
Tank capacity		dm ³	150	150	150	200	200	200	250	250	300	300	300	300	300	300	300	600	600	600
Hydraulic diameters		"	1"1/2	1"1/2	1"1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	4"	4"	5"	5"	5"	5"	5"	5"
Hydraulic diameters		DN	40	40	40	65	65	65	65	65	80	80	100	100	125	125	125	125	125	125
Air conditioning																				
Type of fans			Axial EC																	
Fan diameter		OR	910																	
Number of fans		no	1	1	1	2	2	2	3	3	4	4	6	6	8	8	8	10	10	12
Fan air flow		m ³ /h	23000	23000	23000	46000	46000	46000	69000	69000	92000	92000	138000	138000	184000	184000	184000	230000	230000	276000
Acoustics																				
Sound Power Level	(5)	dBA	86	86	86	88	88	88	90	90	91	91	93	93	95	95	95	97	97	98
Dimensions																				
Height		mm	1973	1973	1973	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444
Width		mm	1099	1099	1099	1100	1100	1100	1100	1100	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240
Length		mm	2592	2592	2592	3043	3043	3043	4113	4113	3942	3942	5076	5076	6210	6210	6210	7344	7344	8476
Power supply			400 / 3 / 50																	
Max absorbed power (FLI)		kW	20	27	30	44	55	62	83	95	110	124	163	189	216	235	254	270	289	324
Max absorbed current (FLA)		TO	42	47	51	75	91	104	141	159	182	208	269	318	355	391	427	444	480	533
Max starting current (MIC)		TO	121	148	170	245	248	364	391	373	339	468	483	578	569	605	687	658	694	747

1 - In accordance with standard EN14511-2022: inlet/outlet chilled water: 12/7°C, air temperature 35°C DB.

2 - In accordance with standard EN14511-2022: inlet/outlet hot water: 40/45°C, air temperature 7°C DB/6°C WB.

4 - User side exchanger inlet/outlet water temperature 30/35°C, average climate profile, with reference to regulation 2013/813 and standard EN 14825

5 - Unit operating at nominal power, without accessories of any kind - external air temperature 35°C and exchanger and user water inlet/outlet temperature equal to 12/7°C. Values according to ISO 3744

Technical data R454B – Reversible heat pump

MODEL			45.1	55.1	65.1	90.1	110.1	130.1	160.1	190.1	220.2	250.2	320.2	390.2	430.2	480.2	520.2	540.2	600.2	650.2
Refrigeration yield	(1)	kW	34.1	44.6	50.3	73.6	87.1	103	130	154	173	205	256	314	344	380	420	428	464	512
Electrical power absorbed	(1)	kW	13.7	16.6	19.1	26.3	33.6	41.4	50.6	62.3	67.1	82.8	99.8	127	133	152	173	166	187	197
EEA (UNI EN 14511-22)	(1)		2.49	2.69	2.63	2.8	2.59	2.49	2.57	2.47	2.58	2.48	2.57	2.47	2.59	2.5	2.43	2.58	2.48	2.59
Thermal output	(2)	kW	45.2	56.8	62.9	93.4	113	131	167	195	225	263	337	402	449	493	542	561	610	682
Electrical power absorbed	(2)	kW	12.9	15.1	16.9	24.5	31.1	36.9	47.6	56	62.1	73.8	92.4	113	123	137	153	156	171	187
COP (UNI EN 14511-22)	(2)		3.5	3.76	3.72	3.81	3.63	3.55	3.51	3.48	3.62	3.56	3.65	3.56	3.65	3.6	3.54	3.6	3.57	3.65
SCOP	(4)		3.96	4.16	4.27	4.39	4.37	4.25	4.26	4.25	4.45	4.01	4.50	4.03	4.34	4.41	4.16	4.36	3.97	4.47
ηs		%	155	163	168	173	172	167	167	167	175	157	177	158	171	174	163	172	156	176
Compressors																				
Number of circuits		no	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Number of compressors		no	2	2	2	2	2	2	2	2	4	4	4	5	4	5	6	5	6	6
Minimum bias		%	50%	50%	44%	40%	38%	32%	41%	45%	19%	16%	33%	22%	25%	18%	17%	20%	18%	17%
Refrigerant charge		kg	9	11	12	18	21	25	32	37	42	50	63	76	84	93	102	106	115	129
Tons CO ₂ ,eq		t,eq	4,0	5,0	5,5	8,2	9,8	11,6	14,7	17,2	19,7	23,1	29,6	35,4	39,2	43,3	47,5	49,2	53,7	59,9
Frequency of checks (Reg.)			Free24 months																	
Hydronics																				
Nominal water flow rate		m ³ /h	7.8	9.8	10.8	16.1	19.4	22.5	28.7	33.5	38.7	45.2	58.0	69.1	77.2	84.8	93.2	96.5	104.9	117.3
Water pressure drops		kPa	38.0	37.0	41.0	42.0	38.0	41.0	40.0	39.0	41.0	40.0	38.0	42.0	41.0	41.0	40.0	42.0	39.0	41
H Low head pump		m	17.8	17.1	16.6	15.3	14.7	13.7	14.2	13.0	17.9	16.8	15.0	13.0	14.7	14.0	13.0	12.5	12.1	14.5
H High head pump		m	21.0	20.5	20.1	20.8	20.7	20.2	26.0	25.8	24.8	23.2	27.0	27.0	24.0	22.0	21.0	30.5	29.5	28
Tank capacity		dm ³	150	150	150	200	200	200	250	250	300	300	300	300	300	300	300	600	600	600
Hydraulic diameters		"	1"1/2	1"1/2	1"1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	4"	4"	5"	5"	5"	5"	5"	5"
Hydraulic diameters		DN	40	40	40	65	65	65	65	65	80	80	100	100	125	125	125	125	125	125
Air conditioning																				
Type of fans			Axial EC																	
Fan diameter		OR	910																	
Number of fans		no	1	1	1	2	2	2	3	3	4	4	6	6	8	8	8	10	10	12
Fan air flow		m ³ /h	23000	23000	23000	46000	46000	46000	69000	69000	92000	92000	138000	138000	184000	184000	184000	230000	230000	276000
Acoustics																				
Sound Power Level	(5)	dBA	86	86	86	88	88	88	90	90	91	91	93	93	95	95	95	97	97	98
Dimensions																				
Height		mm	1973	1973	1973	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444	2444
Width		mm	1099	1099	1099	1100	1100	1100	1100	1100	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240
Length		mm	2592	2592	2592	3043	3043	3043	4113	4113	3942	3942	5076	5076	6210	6210	6210	7344	7344	8476
Power supply			400 / 3 / 50																	
Max absorbed power (FLI)		kW	20	27	30	44	55	62	83	95	110	124	163	189	216	235	254	270	289	324
Max absorbed current (FLA)		TO	42	47	51	75	91	104	141	159	182	208	269	318	355	391	427	444	480	533
Max starting current (MIC)		TO	121	148	170	245	248	364	391	373	339	468	483	578	569	605	687	658	694	747

1 - In accordance with standard EN14511-2022: inlet/outlet chilled water: 12/7°C, air temperature 35°C DB.

2 - In accordance with standard EN14511-2022: inlet/outlet hot water: 40/45°C, air temperature 7°C DB/6°C WB.

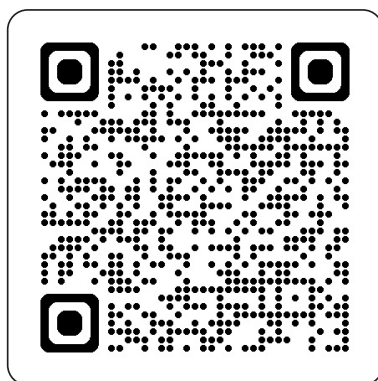
4 - User side exchanger inlet/outlet water temperature 30/35°C, Average climate profile, with reference to regulation 2013/813 and standard EN14825.

5 - Unit operating at nominal power, without accessories of any kind - external air temperature 35°C and exchanger and user water inlet/outlet temperature equal to 12/7°C. Values according to ISO 3744

Technical data – Partial Recovery – R454B

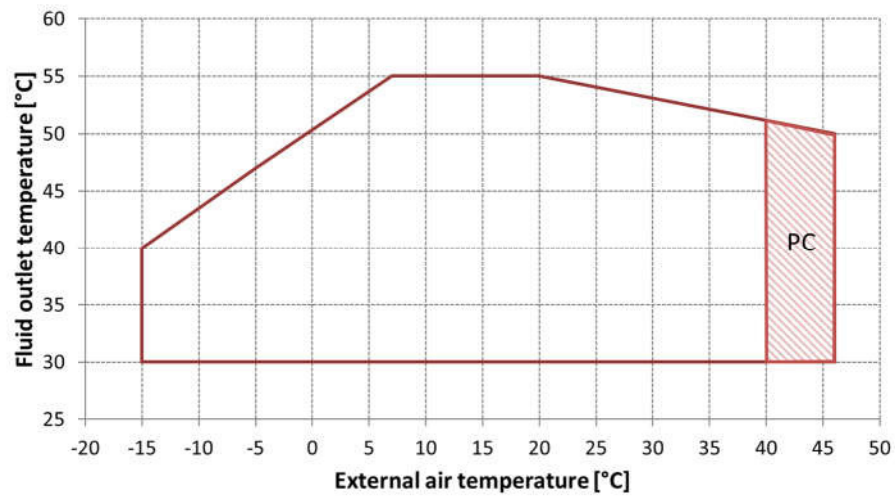
MODEL		45.1	55.1	65.1	90.1	110.1	130.1	160.1	190.1	220.2	250.2	320.2	390.2	430.2	480.2	520.2	540.2	600.2	650.2
Thermal power	kW	9.2	11.8	13.1	19.2	23.1	27.1	34.8	41.4	46.0	53.9	68.9	82.9	91.7	102.3	112.4	114.2	124.3	137.1
Water flow rate W40/45	m³/h	1.6	2.0	2.2	3.3	4.0	4.7	6.0	7.1	7.9	9.3	11.8	14.3	15.8	17.6	19.3	19.6	21.4	23.6
Water pressure drops	kPa	37.0	38.0	40.0	38.0	39.0	42.0	40.0	41.0	38.0	42.0	40.0	41.0	42.0	43.0	45.0	44.0	47.0	49

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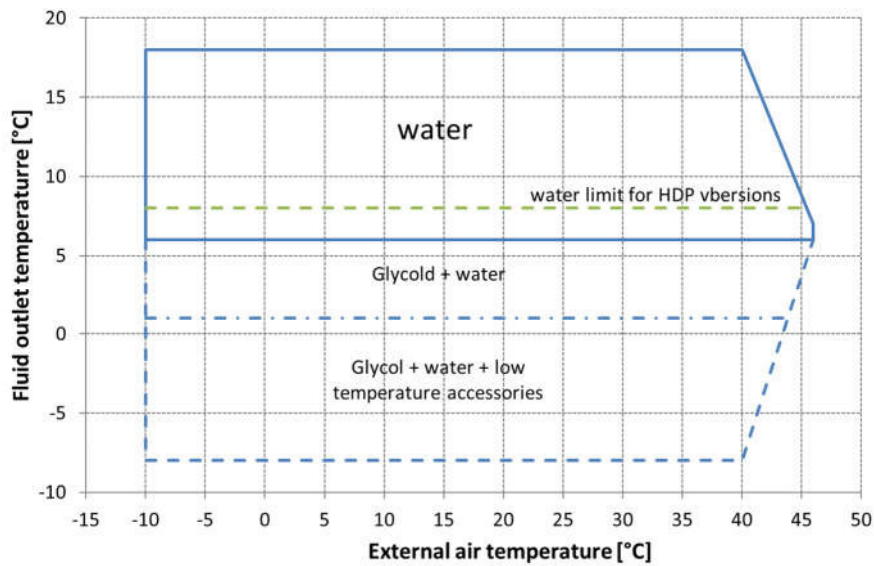
R454B operating limits

HEATING



The temperature difference at the user side exchanger must be between 3°C and 6°C. Operating outside the operating limits may cause the intervention of the safety devices or serious malfunctions. The water inlet temperature at the user side exchanger cannot be lower than 20°C. Within the operating limits, the ventilation section can be subject to modulation. Operating limits are subject to change based on humidity in the air. PC: In the indicated area the control could implement a forced partialization of the compressors to avoid the intervention of the safety devices.

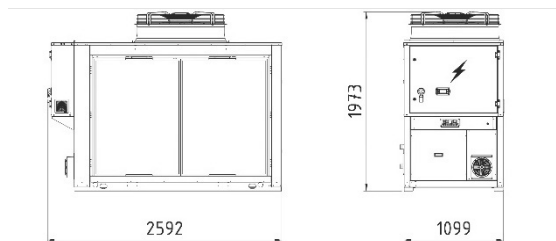
COOLING



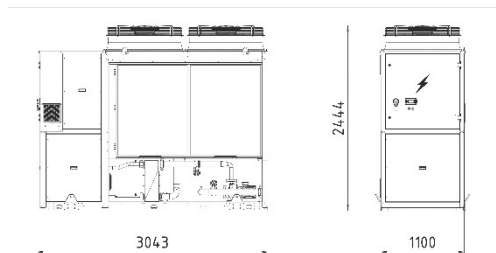
The temperature difference at the user side exchanger must be between 3°C and 6°C. Operating outside the operating limits may cause the intervention of the safety devices or serious malfunctions. The water inlet temperature at the user side exchanger cannot be higher than 25°C. Within the operating limits, the ventilation section can be subject to modulation. Operating limits are subject to change based on humidity in the air.

Dimensions – R454B

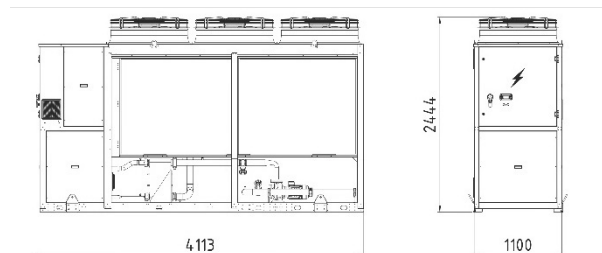
SIZE 45.1 – 55.1 – 65.1



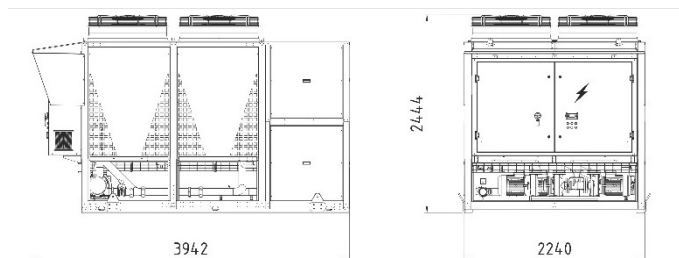
SIZE 90.1 – 110.1 – 130.1



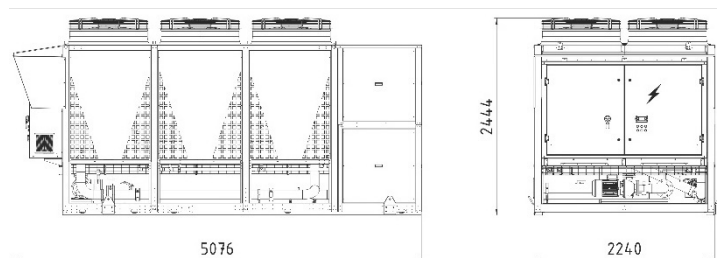
SIZE 160.1 – 190.1



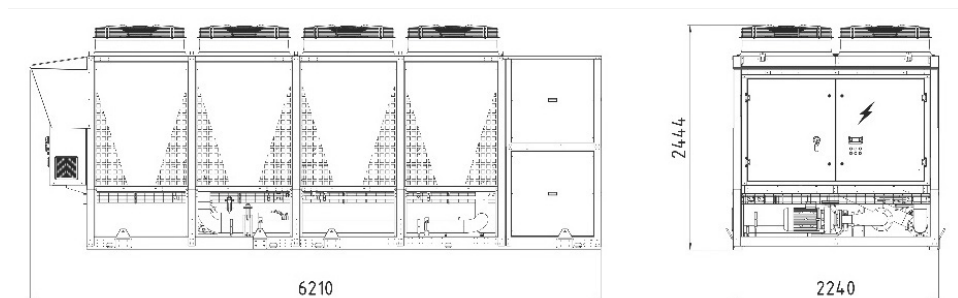
SIZE 220.2 – 250.2



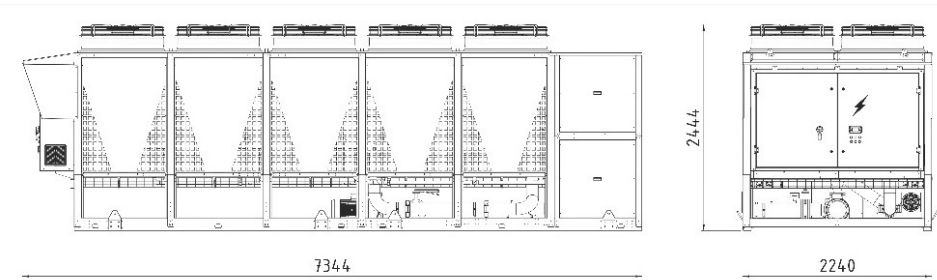
SIZE 320.2 – 390.2



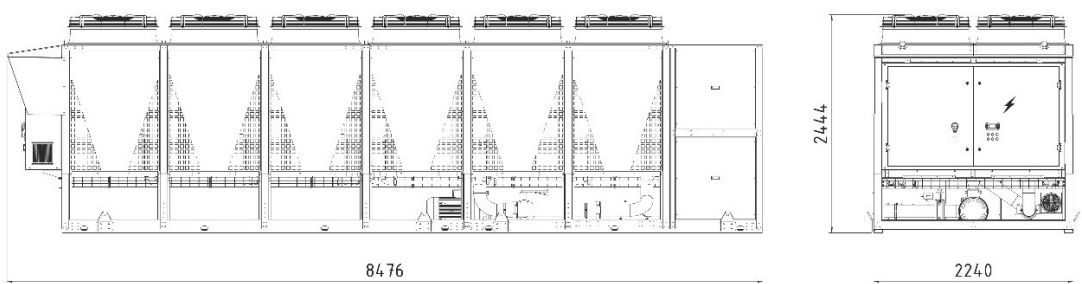
SIZE 430.2 – 480.2 – 520.2



SIZE 540.2 – 600.2



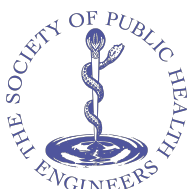
SIZE 650.2



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Rinnai UK, 9 Christleton Court, Runcorn, WA7 1ST
Tel: 0300 373 0660 / www.rinnaiuk.com

Rinnai London, The Building Centre, 26 Store Street, London WC1E 7BT
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