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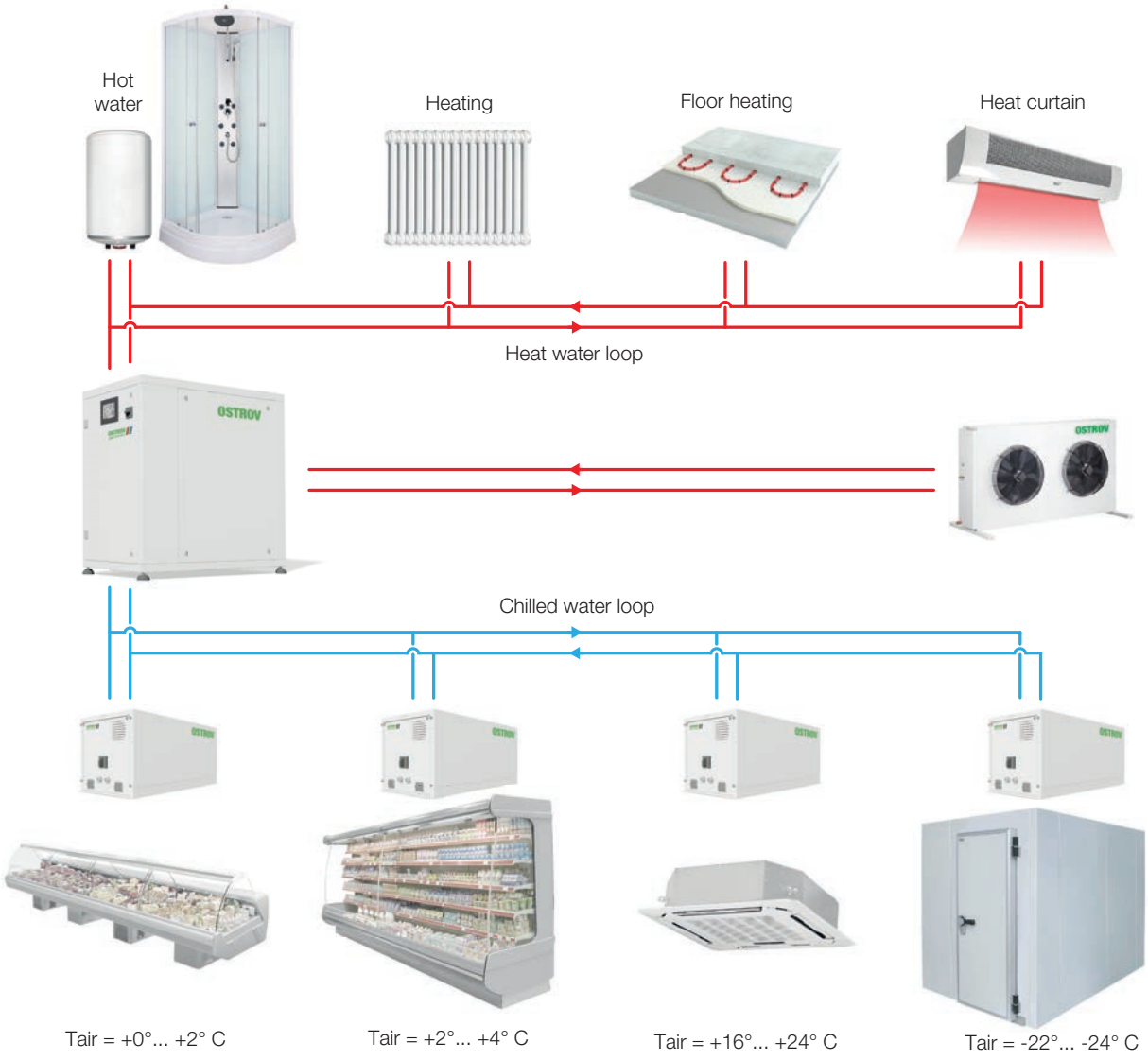
OSTROV
green technology

technical catalogue

Description



OGT is...

√ *High energy efficiency*

√ *F-GAS regulation capability*

√ *Flexible design & Easy installation*

LCS
Low Charge System

WLS
Water Loop System

FHRS
Full Heat Recovery System

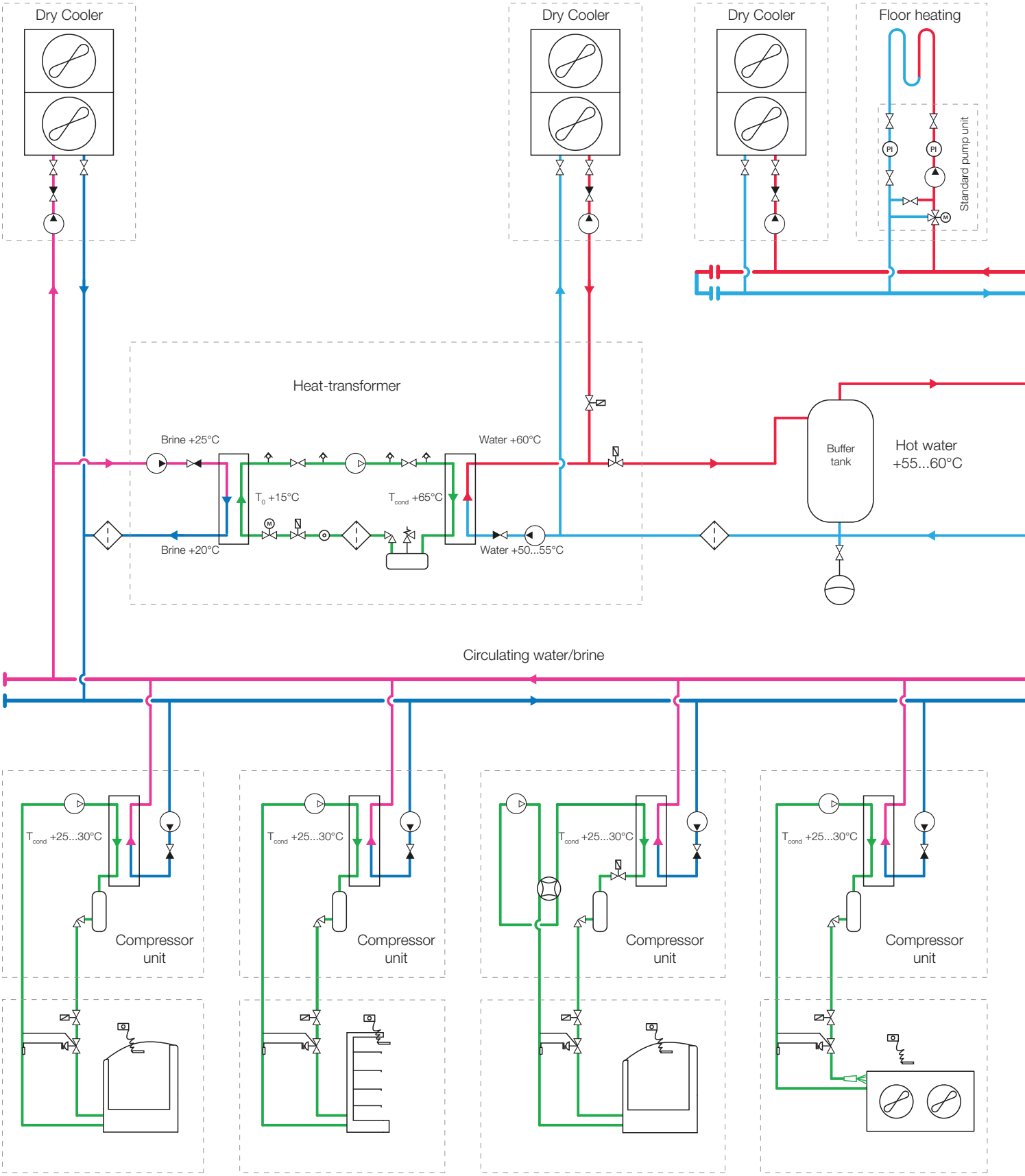
TEC ≥ 7.5
Total Efficiency Coefficient

Advantages

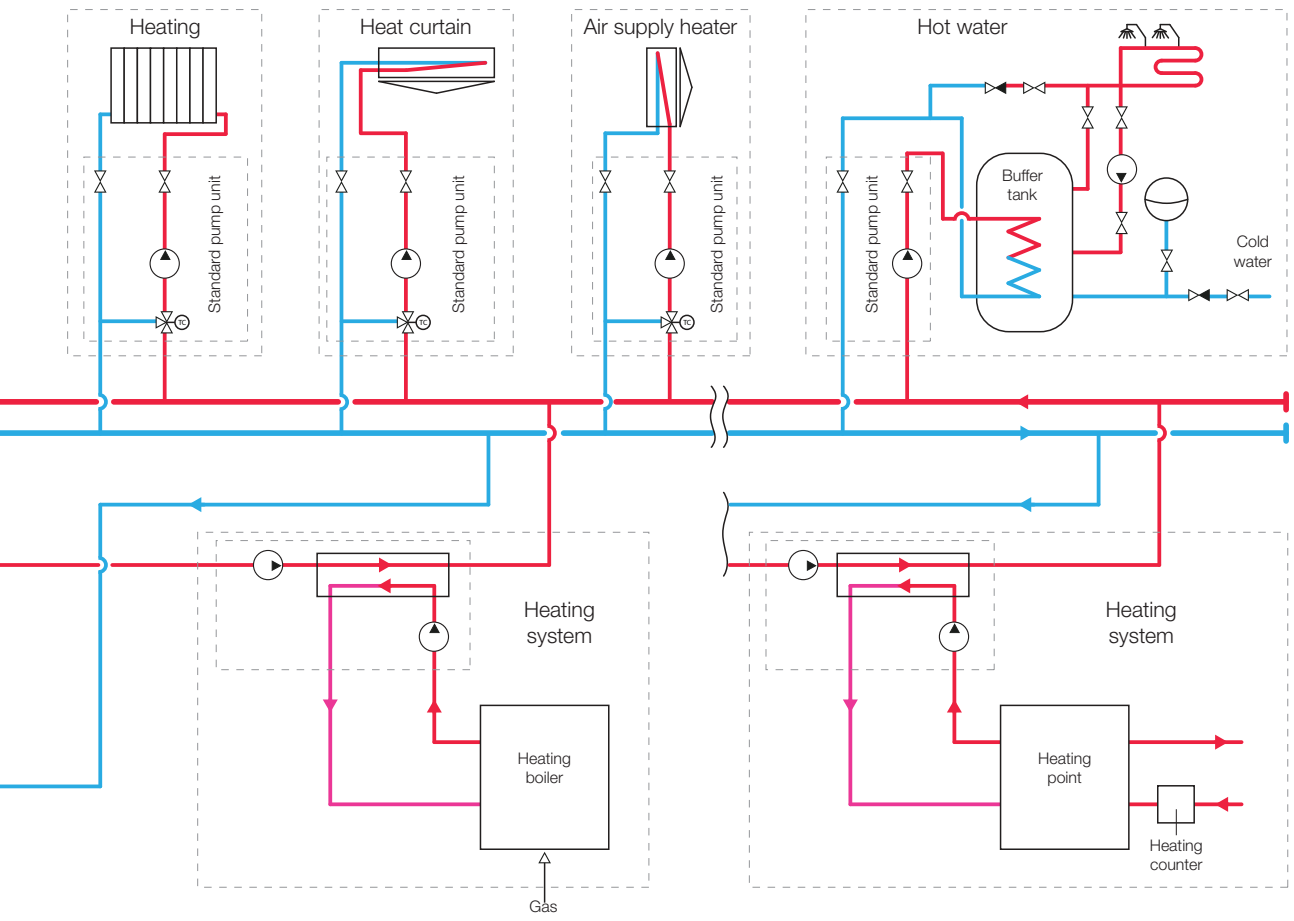
OSTROV

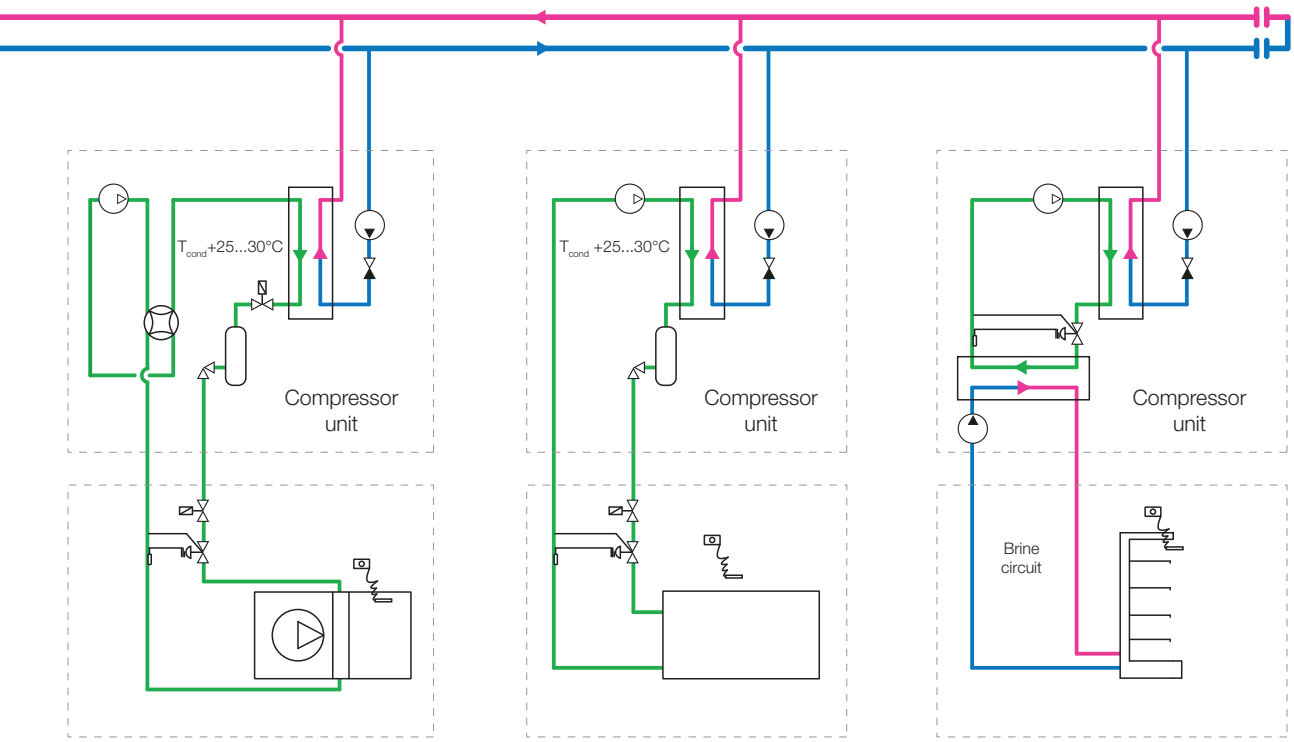
Comparison criteria	CO_2	OGT
1. Ecology (refrigerant)		
Compliance with F-gas regulation	+ +	+ +
TEWI effect – Total Equivalent Warming Impact	+ +	+ +
Natural refrigerants	+ +	+
Refrigerant charge	–	+
2. Energy efficiency		
COP (Coefficient Of Performance) of refrigeration systems	+	+ +
TEC (Total Efficiency Coefficient)	+	+ +
Evaporating temperature	–	+
Heat recovery	+	+
3. Safety		
Working pressure	– –	+ +
Flammability and explosion risk	+	+
Suffocating gas	–	+ +
Accident risk during commissioning	– –	+
Refrigerant leakages	– –	+
4. Reliability		
Optimal operation conditions for each cooling cabinet	–	+
Additional safety systems	–	+
5. Investment costs		
Equipment	–	+
Factory assembly (plug in)	–	+ +
Phased commissioning	–	+ +
Remodeling	–	+ +
Installation and service	–	+
6. Design		
Knowledge of project engineers	– –	+
Design cost	–	+
Flexible design of building and building area	–	+
Same technical solution for different ambient conditions	–	+
7. Installation		
Special certificates or licenses for installers	–	+
Costs and complexity of installation	–	+
Special requirements for pipes installation	–	+
Commissioning costs	–	+
8. Operation		
Design of sales area	+	+
Safety for customers and staff	–	+
Power consumption	+	+
Service and maintenance	–	+

P&IDiagramm



– Compressor
– Pump
– Valve
– 3-way valve
– Filter
– Expansion vessel
– Receiver
– Thermostat / Temperature sensor





– Air Heat Exchanger

– Plate Heat Exchanger

– Refrigerant line

– Hot water lines

– Cold water lines

R290 Condensing Unit

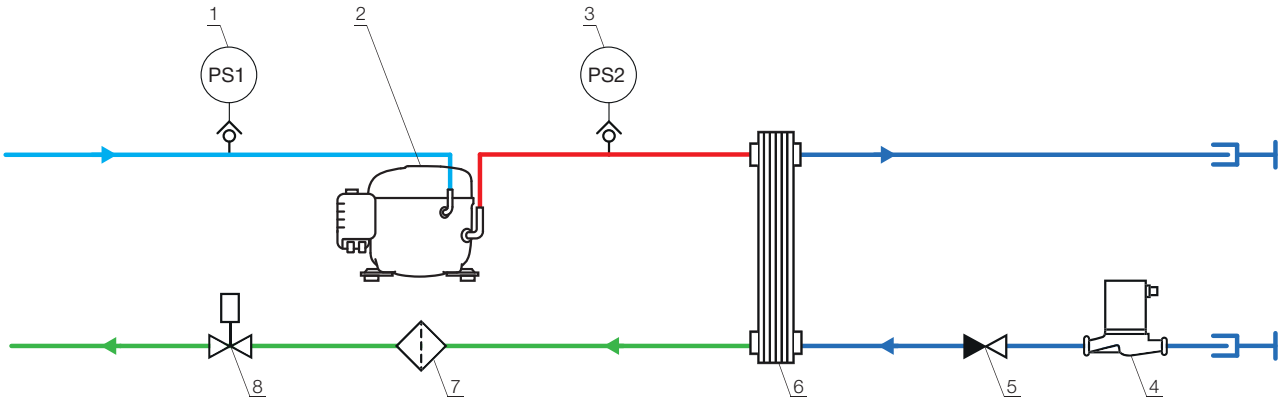
Medium temperature

Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA531-MS-H6	20	1.08	0.28	1.01	0.28	0.94	0.28	0.84	0.27	0.78	0.27	0.71	0.27	0.65	0.26	0.59	0.26
	30	0.93	0.33	0.87	0.32	0.81	0.32	0.73	0.31	0.67	0.30	0.62	0.30	0.56	0.29	0.51	0.29
	40	0.78	0.38	0.73	0.37	0.69	0.36	0.61	0.35	0.57	0.34	0.52	0.33	0.47	0.32	0.43	0.31
OA531-MS-H9	20	1.57	0.43	1.47	0.43	1.37	0.42	1.22	0.41	1.13	0.41	1.03	0.40	0.93	0.39	0.84	0.39
	30	1.38	0.51	1.29	0.49	1.20	0.48	1.07	0.47	0.98	0.46	0.89	0.45	0.81	0.44	0.73	0.43
	40	1.18	0.58	1.10	0.56	1.02	0.55	0.91	0.54	0.84	0.52	0.76	0.51	0.68	0.49	0.61	0.48
OA531-MS-H13	20	2.00	0.50	1.90	0.49	1.79	0.48	1.62	0.47	1.52	0.46	1.41	0.45	1.30	0.44	1.21	0.43
	30	1.77	0.61	1.67	0.59	1.57	0.58	1.42	0.56	1.32	0.54	1.22	0.53	1.13	0.51	1.04	0.50
	40	1.54	0.72	1.45	0.69	1.36	0.67	1.22	0.65	1.13	0.63	1.04	0.61	0.96	0.59	0.87	0.57
OA531-MS-H15	20	2.31	0.78	2.18	0.76	2.06	0.74	1.86	0.71	1.75	0.69	1.62	0.67	1.50	0.64	1.39	0.62
	30	2.05	0.85	1.94	0.83	1.82	0.80	1.64	0.77	1.54	0.74	1.42	0.71	1.31	0.69	1.21	0.66
	40	1.80	0.92	1.69	0.89	1.59	0.86	1.43	0.83	1.33	0.80	1.23	0.76	1.12	0.73	1.03	0.70
OA531-MS-H21	20	OR	OR	3.33	0.93	3.11	0.91	2.77	0.89	2.57	0.86	2.34	0.84	2.12	0.82	1.93	0.80
	30	OR	OR	OR	OR	OR	OR	2.41	1.01	2.23	0.98	2.02	0.94	1.83	0.91	1.66	0.88
	40	OR	OR	OR	OR	OR	OR	2.04	1.14	1.89	1.10	1.70	1.05	1.54	1.01	1.39	0.96
OA531-MS-H28	20	OR	OR	4.11	1.20	3.86	1.18	3.47	1.16	3.25	1.14	2.99	1.11	2.75	1.09	2.54	1.07
	30	OR	OR	OR	OR	OR	OR	3.03	1.35	2.83	1.31	2.60	1.27	2.39	1.23	2.20	1.20
	40	OR	OR	OR	OR	OR	OR	2.59	1.54	2.42	1.49	2.21	1.43	2.03	1.38	1.86	1.33
OA531-MS-H42	20	OR	OR	6.66	1.86	6.22	1.82	5.55	1.77	5.14	1.73	4.67	1.68	4.24	1.63	3.86	1.59
	30	OR	OR	OR	OR	OR	OR	4.82	2.02	4.46	1.96	4.04	1.89	3.66	1.82	3.32	1.76
	40	OR	OR	OR	OR	OR	OR	4.08	2.28	3.77	2.19	3.41	2.10	3.08	2.01	2.79	1.93
OA531-MS-H55	20	OR	OR	8.21	2.41	7.72	2.36	6.95	2.32	6.49	2.27	5.98	2.23	5.51	2.18	5.07	2.14
	30	OR	OR	OR	OR	OR	OR	6.07	2.70	5.66	2.62	5.20	2.55	4.78	2.47	4.40	2.40
	40	OR	OR	OR	OR	OR	OR	5.18	3.08	4.83	2.98	4.43	2.86	4.06	2.76	3.72	2.65

Low temperature

Evaporation temperature, °C		-23		-25		-27		-29		-31		-33		-35	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA531-LS-H3	20	0.38	0.25	0.34	0.24	0.31	0.23	0.28	0.22	0.25	0.21	0.22	0.20	0.19	0.19
	30	0.32	0.26	0.29	0.25	0.27	0.24	0.24	0.23	0.21	0.22	0.18	0.21	0.16	0.20
	40	0.27	0.28	0.24	0.26	0.22	0.25	0.20	0.24	0.17	0.23	0.15	0.21	0.13	0.20
OA531-LS-H4	20	0.49	0.31	0.46	0.30	0.42	0.29	0.39	0.28	0.35	0.27	0.31	0.26	0.28	0.25
	30	0.43	0.34	0.39	0.33	0.36	0.31	0.33	0.30	0.30	0.29	0.27	0.28	0.24	0.26
	40	0.36	0.37	0.33	0.35	0.30	0.34	0.28	0.32	0.25	0.31	0.22	0.29	0.19	0.27
OA531-LS-H6	20	0.73	0.34	0.68	0.34	0.63	0.34	0.58	0.35	0.52	0.33	0.47	0.36	0.43	0.31
	30	0.61	0.39	0.56	0.38	0.51	0.37	0.47	0.36	0.41	0.34	0.37	0.34	0.33	0.31
	40	0.48	0.45	0.44	0.42	0.40	0.40	0.35	0.37	0.31	0.35	0.26	0.32	0.23	0.30
OA531-LS-H7	20	0.83	0.50	0.77	0.49	0.71	0.47	0.65	0.45	0.59	0.43	0.53	0.41	0.47	0.39
	30	0.70	0.51	0.65	0.49	0.59	0.47	0.54	0.45	0.48	0.42	0.42	0.40	0.37	0.38
	40	0.57	0.53	0.52	0.50	0.47	0.48	0.42	0.45	0.36	0.42	0.31	0.39	0.27	0.36
OA531-LS-H9	20	1.08	0.66	1.00	0.63	0.92	0.61	0.84	0.58	0.76	0.56	0.68	0.53	0.60	0.51
	30	0.92	0.69	0.85	0.67	0.78	0.64	0.71	0.61	0.64	0.58	0.57	0.55	0.50	0.52
	40	0.76	0.73	0.70	0.70	0.64	0.67	0.58	0.64	0.52	0.60	0.46	0.57	0.40	0.54
OA531-LS-H13	20	1.59	0.91	1.47	0.88	1.36	0.84	1.24	0.81	1.12	0.77	1.01	0.74	0.90	0.70
	30	1.36	0.96	1.25	0.93	1.14	0.88	1.04	0.84	0.92	0.80	0.82	0.76	0.71	0.72
	40	1.13	1.01	1.03	0.97	0.93	0.92	0.83	0.88	0.73	0.83	0.63	0.78	0.53	0.73
OA531-LS-H18	20	2.17	1.31	2.01	1.27	1.85	1.22	1.69	1.17	1.51	1.12	1.36	1.07	1.21	1.02
	30	1.85	1.38	1.70	1.33	1.56	1.28	1.42	1.22	1.27	1.16	1.13	1.10	1.01	1.05
	40	1.52	1.45	1.40	1.40	1.28	1.33	1.16	1.27	1.03	1.20	0.91	1.14	0.80	1.08
OA531-LS-H26	20	3.18	1.82	2.94	1.76	2.71	1.69	2.48	1.62	2.25	1.55	2.02	1.47	1.80	1.40
	30	2.72	1.92	2.50	1.85	2.28	1.77	2.07	1.68	1.85	1.60	1.64	1.51	1.43	1.43
	40	2.26	2.03	2.06	1.95	1.86	1.85	1.66	1.75	1.45	1.65	1.25	1.55	1.06	1.46

Q_0 - Cooling capacity, kW Pe - Power consumption, kW OR - on request



1 - Low pressure relays with fixed settings (mini pressure switch)
2 - Compressor
3 - High pressure relays with fixed settings (mini pressure switch)
4 - Pump with frequency regulation of capacity
5 - Check valve
6 - Cooling water condenser
7 - Filter drier
8 - Solenoid valve

Medium temperature

Models	Max. operation current	Starting current	Sound pressure level	Suction pipes	Liquid pipes	Length	Width	Height	Net weight
	A	A	Db (A)	inch	inch	mm	mm	mm	kg
OA531-MS-H6	3.3	13.5	25	1/4	3/8	780	340	300	35.6
OA531-MS-H9	5.1	17.1	25	1/4	3/8	780	340	300	36.2
OA531-MS-H13	5.3	16.2	25	1/4	3/8	780	340	300	37.0
OA531-MS-H15	5.8	19.2	25	1/4	3/8	780	340	300	37.8
OA531-MS-H21	7.0	30.0	25	1/4	1/2	780	340	340	48.0
OA531-MS-H28	8.9	35.0	25	1/4	1/2	780	340	340	50.0
OA531-MS-H42	2 x 7.0	2 x 30.0	29	2 x 1/4	1/2	1380	340	340	85.0
OA531-MS-H55	2 x 8.9	2 x 35.0	29	2 x 1/4	1/2	1380	340	340	87.0

Low temperature

Models	Max. operation current	Starting current	Sound pressure level	Suction pipes	Liquid pipes	Length	Width	Height	Net weight
	A	A	Db (A)	inch	inch	mm	mm	mm	kg
OA531-LS-H3	2.9	13.5	25	1/4	3/8	780	340	300	35.6
OA531-LS-H4	3.7	14.2	25	1/4	3/8	780	340	300	36.2
OA531-LS-H6	5.3	16.2	25	1/4	3/8	780	340	300	37.0
OA531-LS-H7	5.8	19.2	25	1/4	3/8	780	340	300	37.8
OA531-LS-H9	7.0	30.0	25	1/4	1/2	780	340	340	48.0
OA531-LS-H13	8.9	35.0	25	1/4	1/2	780	340	340	50.0
OA531-LS-H18	2 x 7.0	2 x 30.0	29	2 x 1/4	1/2	1380	340	340	85.0
OA531-LS-H26	2 x 8.9	2 x 35.0	29	2 x 1/4	1/2	1380	340	340	87.0

Compressor hermetic Power supply ~1-230V-50Hz Water pipes G3/4''

R449A Condensing Unit

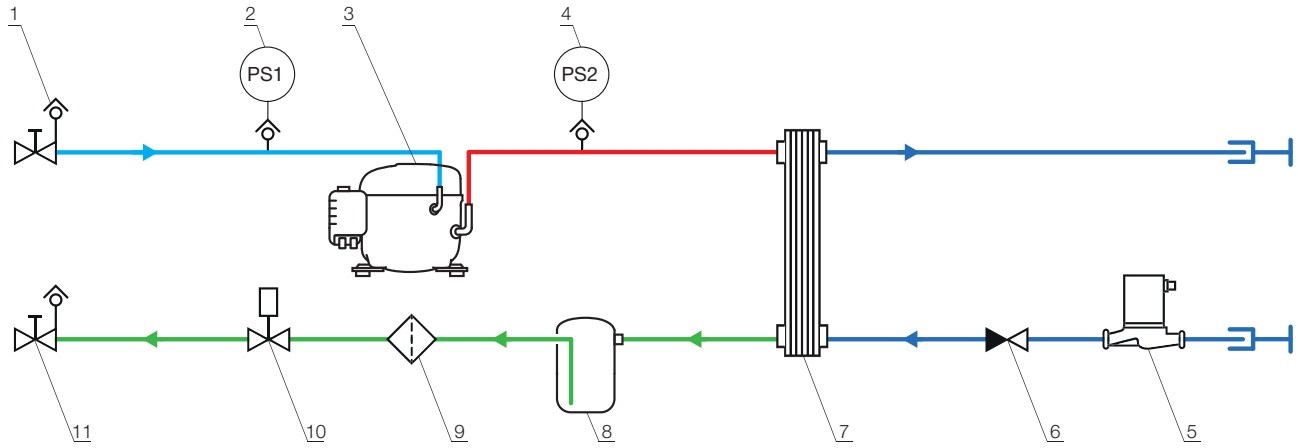
Medium temperature

Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA331-MS-H6	20	0.75	0.23	0.71	0.22	0.67	0.22	0.62	0.21	0.58	0.21	0.54	0.20	0.50	0.20	0.47	0.19
	30	0.65	0.26	0.61	0.25	0.57	0.25	0.53	0.23	0.48	0.23	0.44	0.22	0.40	0.22	0.37	0.21
	40	0.56	0.29	0.52	0.28	0.48	0.27	0.43	0.26	0.38	0.25	0.34	0.25	0.30	0.24	0.26	0.23
OA331-MS-H13	20	1.57	0.45	1.49	0.44	1.41	0.43	1.32	0.41	1.23	0.40	1.15	0.39	1.07	0.38	1.01	0.37
	30	1.37	0.51	1.29	0.50	1.21	0.49	1.11	0.47	1.02	0.45	0.94	0.44	0.86	0.43	0.79	0.42
	40	1.17	0.57	1.09	0.56	1.00	0.54	0.91	0.52	0.81	0.50	0.73	0.49	0.65	0.48	0.58	0.46
OA331-MS-H15	20	1.83	0.54	1.73	0.53	1.64	0.52	1.52	0.50	1.41	0.49	1.32	0.47	1.23	0.46	1.15	0.45
	30	1.61	0.60	1.51	0.59	1.41	0.57	1.30	0.55	1.19	0.54	1.09	0.52	1.00	0.51	0.92	0.50
	40	1.39	0.66	1.29	0.65	1.19	0.63	1.08	0.60	0.97	0.59	0.87	0.57	0.77	0.56	0.69	0.54
OA331-MS-H18	20	2.22	0.61	2.12	0.60	2.01	0.59	1.88	0.56	1.76	0.55	1.65	0.53	1.56	0.52	1.48	0.51
	30	1.90	0.69	1.79	0.67	1.68	0.65	1.55	0.62	1.42	0.61	1.31	0.59	1.20	0.57	1.11	0.55
	40	1.59	0.77	1.47	0.75	1.35	0.72	1.22	0.69	1.08	0.66	0.96	0.64	0.85	0.62	0.75	0.60
OA331-MS-H29	20	3.61	0.90	3.44	0.88	3.27	0.85	3.07	0.81	2.87	0.79	2.69	0.77	2.54	0.74	2.41	0.72
	30	3.08	1.02	2.90	0.99	2.71	0.96	2.50	0.91	2.29	0.87	2.10	0.84	1.93	0.81	1.78	0.78
	40	2.55	1.14	2.35	1.10	2.15	1.06	1.94	1.00	1.71	0.96	1.51	0.92	1.33	0.88	1.16	0.85
OA331-MS-H32	20	3.92	1.01	3.73	0.98	3.54	0.95	3.31	0.91	3.08	0.88	2.89	0.86	2.71	0.83	2.56	0.80
	30	3.37	1.13	3.17	1.10	2.97	1.07	2.74	1.01	2.51	0.98	2.30	0.95	2.11	0.92	1.95	0.89
	40	2.82	1.26	2.61	1.22	2.40	1.18	2.17	1.12	1.93	1.08	1.71	1.04	1.52	1.00	1.34	0.97
OA331-MS-H41	20	5.11	1.47	4.83	1.43	4.55	1.39	4.21	1.32	3.89	1.28	3.61	1.24	3.34	1.20	3.11	1.16
	30	4.41	1.62	4.13	1.57	3.85	1.53	3.53	1.45	3.21	1.41	2.92	1.36	2.66	1.31	2.43	1.27
	40	3.71	1.77	3.43	1.72	3.15	1.67	2.84	1.58	2.53	1.53	2.24	1.48	1.98	1.42	1.74	1.38
OA331-MS-H56	20	7.01	1.81	6.64	1.76	6.26	1.71	5.82	1.63	5.39	1.59	5.00	1.54	4.66	1.49	4.35	1.45
	30	5.96	2.03	5.58	1.97	5.21	1.90	4.77	1.80	4.34	1.74	3.96	1.68	3.61	1.61	3.29	1.55
	40	4.91	2.25	4.53	2.17	4.15	2.09	3.73	1.97	3.30	1.89	2.92	1.81	2.56	1.73	2.23	1.66
OA331-MS-H82	20	10.22	2.93	9.66	2.85	9.09	2.77	8.43	2.64	7.78	2.56	7.21	2.48	6.69	2.40	6.23	2.33
	30	8.82	3.24	8.26	3.15	7.70	3.05	7.05	2.90	6.42	2.81	5.85	2.72	5.32	2.63	4.85	2.54
	40	7.43	3.55	6.87	3.44	6.31	3.33	5.68	3.17	5.05	3.06	4.48	2.95	3.95	2.85	3.48	2.75

Low temperature

Evaporation temperature, °C		-23		-25		-27		-29		-31		-33		-35	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA331-LS-H6	20	0.65	0.49	0.59	0.47	0.53	0.45	0.46	0.43	0.39	0.40	0.33	0.38	0.28	0.36
	30	0.52	0.51	0.47	0.48	0.42	0.46	0.36	0.43	0.31	0.40	0.26	0.38	0.21	0.35
	40	0.40	0.53	0.35	0.50	0.32	0.47	0.26	0.44	0.22	0.40	0.18	0.37	0.14	0.34
OA331-LS-H7	20	0.77	0.59	0.69	0.56	0.63	0.54	0.54	0.51	0.47	0.49	0.40	0.46	0.34	0.43
	30	0.62	0.61	0.56	0.58	0.51	0.55	0.43	0.52	0.37	0.49	0.31	0.46	0.26	0.43
	40	0.48	0.63	0.43	0.60	0.38	0.56	0.32	0.52	0.27	0.49	0.22	0.45	0.18	0.42
OA331-LS-H9	20	0.98	0.71	0.89	0.68	0.81	0.65	0.71	0.62	0.61	0.58	0.53	0.55	0.45	0.52
	30	0.80	0.75	0.73	0.71	0.66	0.67	0.57	0.63	0.49	0.59	0.41	0.55	0.35	0.51
	40	0.63	0.78	0.56	0.74	0.50	0.69	0.43	0.64	0.36	0.60	0.30	0.55	0.25	0.51
OA331-LS-H12	20	1.26	0.98	1.14	0.93	1.04	0.89	0.91	0.85	0.79	0.81	0.68	0.76	0.58	0.72
	30	1.04	1.03	0.94	0.97	0.85	0.92	0.74	0.87	0.63	0.82	0.54	0.77	0.46	0.72
	40	0.81	1.08	0.73	1.02	0.66	0.96	0.57	0.90	0.48	0.84	0.41	0.78	0.34	0.72
OA331-LS-H18	20	1.97	1.44	1.79	1.38	1.62	1.31	1.41	1.25	1.22	1.19	1.05	1.12	0.90	1.06
	30	1.61	1.52	1.45	1.44	1.32	1.36	1.14	1.28	0.97	1.20	0.83	1.13	0.70	1.05
	40	1.25	1.60	1.12	1.50	1.01	1.41	0.86	1.32	0.73	1.22	0.60	1.13	0.50	1.03
OA331-LS-H23	20	2.51	1.89	2.28	1.81	2.08	1.73	1.81	1.65	1.57	1.57	1.36	1.49	1.16	1.41
	30	2.07	1.99	1.88	1.89	1.70	1.79	1.47	1.69	1.27	1.59	1.09	1.49	0.92	1.39
	40	1.63	2.08	1.47	1.96	1.32	1.85	1.13	1.73	0.96	1.61	0.81	1.49	0.68	1.37

Q_0 - Cooling capacity, kW Pe - Power consumption, kW



1 - Shut-off valve Rotalock with service valves on the unit's housing
2 - Low pressure relays with fixed settings (mini pressure switch)
3 - Compressor
4 - High pressure relays with fixed settings (mini pressure switch)
5 - Pump with frequency regulation of capacity
6 - Check valve
7 - Cooling water condenser
8 - Refrigerant receiver
9 - Filter drier
10 - Solenoid valve
11 - Shut-off valve with a Schrader valve

Medium temperature

Models	Max. operation current	Starting current	Receiver volume	Sound pressure level	Liquid pipes	Suction pipes	Length	Width	Height	Net weight
	A	A	l	Db (A)	inch	inch	mm	mm	mm	kg
OA331-MS-H6	2.9	11.4	1.6	18	3/8	3/8	810	340	300	35.6
OA331-MS-H13	5.9	19.4	1.6	25	3/8	3/8	810	340	300	37.0
OA331-MS-H15	5.3	19.3	1.6	25	3/8	3/8	810	340	300	37.8
OA331-MS-H18	6.7	22.6	2.3	22	3/8	1/2	810	340	340	52.5
OA331-MS-H29	11.3	33.0	2.3	25	3/8	1/2	810	340	340	53.9
OA331-MS-H32	12.7	39.0	2.3	25	3/8	1/2	810	340	340	54.0
OA331-MS-H41	15.2	45.0	2.3	29	3/8	1/2	810	340	340	54.0
OA331-MS-H56	2 x 12.7	2 x 39.0	2.3	28	3/8	7/8	1276	340	340	80.2
OA331-MS-H82	2 x 15.2	2 x 45.0	2.3	32	3/8	7/8	1276	340	340	80.2

Low temperature

Models	Max. operation current	Starting current	Receiver volume	Sound pressure level	Liquid pipes	Suction pipes	Length	Width	Height	Net weight
	A	A	l	Db (A)	inch	inch	mm	mm	mm	kg
OA331-LS-H6	5.9	21.0	2.3	18	3/8	1/2	810	340	300	52.5
OA331-LS-H7	5.7	27.0	2.3	18	3/8	1/2	810	340	300	53.8
OA331-LS-H9	8.2	30.0	2.3	19	3/8	1/2	810	340	340	53.8
OA331-LS-H12	10.0	40.0	2.3	22	3/8	1/2	810	340	340	54.6
OA331-LS-H18	2 x 8.2	2 x 30.0	2.3	21	3/8	7/8	1276	340	340	79.8
OA331-LS-H23	2 x 10.0	2 x 40.0	2.3	25	3/8	7/8	1276	340	340	81.4

Compressor hermetic Power supply ~1-230V-50Hz Water pipes G3/4''

R452A Condensing Unit

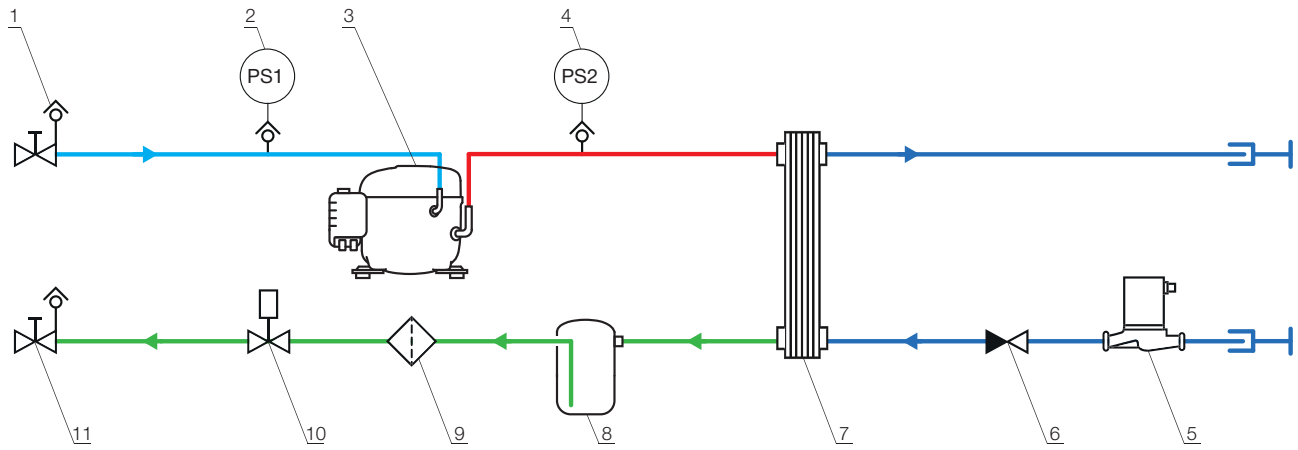
Medium temperature

Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA331-MS-H6	20	0.78	0.26	0.73	0.26	0.67	0.25	0.61	0.24	0.55	0.24	0.49	0.24	0.44	0.23	0.39	0.23
	30	0.67	0.29	0.62	0.29	0.57	0.28	0.52	0.27	0.47	0.26	0.42	0.25	0.37	0.25	0.33	0.24
	40	0.56	0.32	0.52	0.32	0.48	0.31	0.43	0.29	0.38	0.28	0.34	0.27	0.30	0.26	0.27	0.25
OA331-MS-H13	20	1.63	0.50	1.52	0.49	1.41	0.48	1.29	0.46	1.17	0.45	1.06	0.44	0.95	0.43	0.86	0.42
	30	1.39	0.57	1.30	0.55	1.20	0.54	1.10	0.51	0.99	0.50	0.89	0.49	0.81	0.47	0.72	0.46
	40	1.15	0.63	1.07	0.62	0.99	0.60	0.90	0.57	0.81	0.55	0.73	0.53	0.66	0.51	0.59	0.50
OA331-MS-H15	20	1.89	0.59	1.77	0.58	1.64	0.57	1.50	0.55	1.36	0.54	1.23	0.53	1.11	0.52	1.00	0.51
	30	1.63	0.66	1.52	0.65	1.41	0.63	1.28	0.60	1.16	0.59	1.05	0.58	0.95	0.56	0.85	0.55
	40	1.37	0.73	1.27	0.71	1.18	0.69	1.07	0.66	0.97	0.64	0.87	0.62	0.78	0.60	0.70	0.58
OA331-MS-H18	20	2.32	0.68	2.16	0.66	1.99	0.65	1.81	0.62	1.63	0.61	1.46	0.60	1.31	0.58	1.17	0.57
	30	1.94	0.76	1.80	0.74	1.67	0.72	1.51	0.69	1.36	0.67	1.21	0.65	1.08	0.63	0.97	0.60
	40	1.57	0.85	1.45	0.82	1.34	0.79	1.21	0.75	1.08	0.72	0.97	0.70	0.86	0.67	0.76	0.64
OA331-MS-H29	20	3.77	0.99	3.51	0.97	3.24	0.95	2.93	0.90	2.63	0.88	2.36	0.86	2.10	0.83	1.87	0.81
	30	3.15	1.12	2.92	1.09	2.69	1.05	2.43	1.00	2.17	0.96	1.94	0.93	1.72	0.89	1.53	0.86
	40	2.52	1.25	2.33	1.21	2.14	1.16	1.93	1.09	1.71	1.05	1.52	1.00	1.34	0.96	1.18	0.91
OA331-MS-H32	20	4.09	1.11	3.80	1.08	3.52	1.06	3.20	1.01	2.88	0.98	2.60	0.96	2.33	0.93	2.09	0.90
	30	3.43	1.25	3.19	1.21	2.95	1.18	2.68	1.12	2.41	1.08	2.16	1.05	1.93	1.01	1.73	0.97
	40	2.78	1.40	2.58	1.35	2.38	1.30	2.15	1.23	1.93	1.18	1.72	1.13	1.53	1.09	1.36	1.04
OA331-MS-H41	20	5.30	1.62	4.93	1.58	4.56	1.54	4.14	1.47	3.74	1.43	3.36	1.39	3.02	1.35	2.70	1.31
	30	4.48	1.79	4.16	1.74	3.84	1.68	3.48	1.60	3.13	1.55	2.81	1.50	2.51	1.45	2.24	1.39
	40	3.66	1.96	3.40	1.90	3.13	1.83	2.82	1.73	2.52	1.67	2.25	1.60	2.00	1.54	1.77	1.47
OA331-MS-H56	20	7.28	1.99	6.77	1.94	6.26	1.90	5.68	1.81	5.12	1.77	4.60	1.72	4.12	1.68	3.68	1.63
	30	6.07	2.24	5.63	2.17	5.19	2.10	4.70	1.98	4.21	1.92	3.77	1.85	3.35	1.78	2.98	1.70
	40	4.85	2.49	4.48	2.40	4.12	2.30	3.71	2.16	3.30	2.06	2.93	1.97	2.59	1.88	2.27	1.78
OA331-MS-H82	20	10.59	3.23	9.86	3.15	9.12	3.07	8.29	2.93	7.47	2.86	6.73	2.78	6.04	2.70	5.41	2.62
	30	8.96	3.58	8.32	3.47	7.69	3.37	6.97	3.20	6.26	3.10	5.62	2.99	5.02	2.89	4.47	2.79
	40	7.33	3.92	6.79	3.79	6.25	3.66	5.65	3.46	5.05	3.34	4.50	3.21	4.00	3.08	3.54	2.95

Low temperature

Evaporation temperature, °C		-23		-25		-27		-29		-31		-33		-35	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA331-LS-H6	20	0.69	0.53	0.62	0.50	0.56	0.48	0.49	0.46	0.42	0.44	0.36	0.41	0.30	0.39
	30	0.55	0.54	0.49	0.51	0.45	0.49	0.38	0.46	0.33	0.43	0.27	0.40	0.23	0.38
	40	0.41	0.55	0.37	0.52	0.33	0.49	0.28	0.46	0.23	0.43	0.19	0.40	0.15	0.37
OA331-LS-H7	20	0.81	0.63	0.73	0.60	0.67	0.58	0.58	0.55	0.50	0.52	0.43	0.50	0.37	0.47
	30	0.65	0.64	0.59	0.61	0.53	0.58	0.46	0.55	0.39	0.52	0.33	0.49	0.28	0.46
	40	0.49	0.66	0.44	0.62	0.40	0.59	0.34	0.55	0.28	0.51	0.24	0.48	0.20	0.45
OA331-LS-H9	20	1.04	0.76	0.94	0.73	0.86	0.70	0.75	0.66	0.66	0.63	0.57	0.60	0.49	0.56
	30	0.84	0.79	0.76	0.75	0.69	0.71	0.60	0.67	0.52	0.63	0.44	0.59	0.38	0.55
	40	0.65	0.81	0.58	0.77	0.52	0.72	0.45	0.68	0.38	0.63	0.32	0.59	0.26	0.55
OA331-LS-H12	20	1.32	1.05	1.21	1.00	1.10	0.96	0.97	0.91	0.85	0.87	0.74	0.82	0.64	0.78
	30	1.08	1.08	0.98	1.03	0.89	0.98	0.78	0.93	0.68	0.88	0.58	0.83	0.50	0.78
	40	0.84	1.11	0.76	1.06	0.69	1.00	0.59	0.94	0.51	0.88	0.43	0.83	0.36	0.77
OA331-LS-H18	20	2.07	1.55	1.89	1.48	1.72	1.41	1.51	1.35	1.31	1.28	1.14	1.21	0.98	1.15
	30	1.68	1.60	1.52	1.52	1.38	1.44	1.20	1.36	1.04	1.28	0.89	1.20	0.75	1.13
	40	1.29	1.65	1.16	1.56	1.05	1.47	0.90	1.38	0.76	1.29	0.64	1.20	0.53	1.11
OA331-LS-H23	20	2.65	2.03	2.41	1.95	2.20	1.86	1.93	1.78	1.69	1.69	1.47	1.61	1.27	1.52
	30	2.16	2.09	1.96	1.99	1.79	1.90	1.56	1.79	1.35	1.69	1.17	1.60	1.00	1.50
	40	1.68	2.16	1.52	2.04	1.37	1.93	1.18	1.81	1.01	1.70	0.86	1.58	0.72	1.47

Q_0 - Cooling capacity, kW Pe - Power consumption, kW



1 - Shut-off valve Rotalock with service valves on the unit's housing
2 - Low pressure relays with fixed settings (mini pressure switch)
3 - Compressor
4 - High pressure relays with fixed settings (mini pressure switch)
5 - Pump with frequency regulation of capacity
6 - Check valve
7 - Cooling water condenser
8 - Refrigerant receiver
9 - Filter drier
10 - Solenoid valve
11 - Shut-off valve with a Schrader valve

Medium temperature

Models	Max. operation current	Starting current	Receiver volume	Sound pressure level	Liquid pipes	Suction pipes	Length	Width	Height	Net weight
	A	A	l	Db (A)	inch	inch	mm	mm	mm	kg
OA331-MS-H6	2.9	11.4	1.6	18	3/8	3/8	810	340	300	35.6
OA331-MS-H13	5.9	19.4	1.6	25	3/8	3/8	810	340	300	37.0
OA331-MS-H15	5.3	19.3	1.6	25	3/8	3/8	810	340	300	37.8
OA331-MS-H18	6.7	22.6	2.3	22	3/8	1/2	810	340	340	52.5
OA331-MS-H29	11.3	33.0	2.3	25	3/8	1/2	810	340	340	53.9
OA331-MS-H32	12.7	39.0	2.3	25	3/8	1/2	810	340	340	54.0
OA331-MS-H41	15.2	45.0	2.3	29	3/8	1/2	810	340	340	54.0
OA331-MS-H56	2 x 12.7	2 x 39.0	2.3	28	3/8	7/8	1276	340	340	80.2
OA331-MS-H82	2 x 15.2	2 x 45.0	2.3	32	3/8	7/8	1276	340	340	80.2

Low temperature

Models	Max. operation current	Starting current	Receiver volume	Sound pressure level	Liquid pipes	Suction pipes	Length	Width	Height	Net weight
	A	A	l	Db (A)	inch	inch	mm	mm	mm	kg
OA331-LS-H6	5.9	21.0	2.3	18	3/8	1/2	810	340	300	52.5
OA331-LS-H7	5.7	27.0	2.3	18	3/8	1/2	810	340	300	53.8
OA331-LS-H9	8.2	30.0	2.3	19	3/8	1/2	810	340	340	53.8
OA331-LS-H12	10.0	40.0	2.3	22	3/8	1/2	810	340	340	54.6
OA331-LS-H18	2 x 8.2	2 x 30.0	2.3	21	3/8	7/8	1276	340	340	79.8
OA331-LS-H23	2 x 10.0	2 x 40.0	2.3	25	3/8	7/8	1276	340	340	81.4

Compressor hermetic Power supply ~1-230V-50Hz Water pipes G3/4''

R404A Condensing Unit

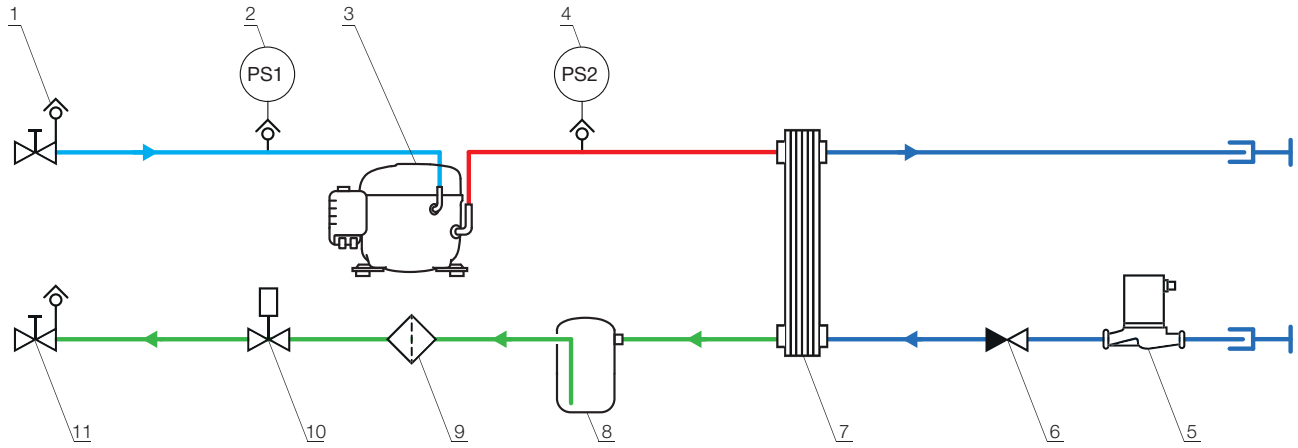
Medium temperature

Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA331-MS-H6	20	0.82	0.26	0.76	0.26	0.71	0.25	0.65	0.24	0.59	0.24	0.53	0.24	0.48	0.23	0.43	0.23
	30	0.69	0.30	0.65	0.29	0.60	0.28	0.55	0.27	0.50	0.27	0.45	0.26	0.41	0.25	0.37	0.25
	40	0.57	0.33	0.53	0.32	0.49	0.32	0.45	0.30	0.41	0.29	0.37	0.28	0.33	0.28	0.30	0.27
OA331-MS-H13	20	1.71	0.53	1.61	0.51	1.50	0.50	1.37	0.48	1.26	0.47	1.15	0.46	1.05	0.45	0.96	0.44
	30	1.45	0.59	1.36	0.58	1.27	0.57	1.16	0.54	1.06	0.53	0.97	0.51	0.89	0.50	0.81	0.49
	40	1.19	0.66	1.11	0.64	1.04	0.63	0.95	0.60	0.87	0.58	0.80	0.56	0.73	0.55	0.66	0.53
OA331-MS-H15	20	1.99	0.62	1.86	0.61	1.74	0.60	1.60	0.58	1.46	0.57	1.34	0.56	1.23	0.55	1.12	0.54
	30	1.70	0.69	1.59	0.68	1.49	0.66	1.36	0.64	1.25	0.62	1.14	0.61	1.05	0.59	0.95	0.58
	40	1.41	0.76	1.32	0.75	1.23	0.73	1.13	0.69	1.03	0.68	0.95	0.66	0.86	0.64	0.79	0.62
OA331-MS-H18	20	2.43	0.71	2.27	0.70	2.11	0.68	1.93	0.65	1.76	0.64	1.59	0.63	1.45	0.62	1.31	0.60
	30	2.02	0.80	1.89	0.78	1.76	0.76	1.60	0.72	1.46	0.70	1.32	0.68	1.20	0.66	1.08	0.64
	40	1.62	0.89	1.51	0.86	1.40	0.83	1.28	0.79	1.16	0.77	1.05	0.74	0.95	0.71	0.85	0.68
OA331-MS-H29	20	3.96	1.04	3.70	1.02	3.43	0.99	3.13	0.95	2.84	0.93	2.57	0.90	2.32	0.88	2.09	0.85
	30	3.28	1.18	3.06	1.14	2.83	1.11	2.58	1.05	2.33	1.02	2.11	0.98	1.90	0.95	1.71	0.91
	40	2.60	1.31	2.42	1.26	2.24	1.22	2.03	1.15	1.83	1.11	1.65	1.06	1.48	1.02	1.32	0.97
OA331-MS-H32	20	4.29	1.16	4.01	1.14	3.73	1.11	3.41	1.06	3.11	1.03	2.83	1.01	2.57	0.98	2.33	0.95
	30	3.58	1.31	3.35	1.27	3.11	1.24	2.84	1.18	2.59	1.14	2.35	1.11	2.13	1.07	1.93	1.03
	40	2.87	1.46	2.68	1.41	2.49	1.36	2.27	1.29	2.06	1.25	1.87	1.20	1.69	1.16	1.53	1.11
OA331-MS-H41	20	5.56	1.70	5.20	1.66	4.84	1.61	4.42	1.54	4.03	1.50	3.67	1.46	3.33	1.42	3.01	1.38
	30	4.67	1.87	4.36	1.82	4.06	1.77	3.70	1.68	3.37	1.63	3.06	1.58	2.77	1.53	2.50	1.48
	40	3.78	2.05	3.52	1.99	3.27	1.92	2.98	1.82	2.70	1.76	2.45	1.70	2.21	1.64	1.98	1.58
OA331-MS-H56	20	7.65	2.09	7.15	2.04	6.65	1.99	6.06	1.91	5.52	1.86	5.01	1.81	4.54	1.77	4.11	1.72
	30	6.32	2.35	5.90	2.27	5.48	2.20	4.99	2.09	4.53	2.02	4.10	1.95	3.70	1.88	3.33	1.81
	40	5.00	2.60	4.66	2.51	4.31	2.41	3.91	2.27	3.53	2.18	3.18	2.09	2.85	2.00	2.55	1.90
OA331-MS-H82	20	11.11	3.39	10.40	3.31	9.68	3.23	8.84	3.08	8.06	3.00	7.33	2.92	6.65	2.84	6.03	2.76
	30	9.33	3.74	8.72	3.64	8.11	3.54	7.40	3.37	6.73	3.27	6.11	3.17	5.53	3.06	5.00	2.96
	40	7.56	4.10	7.05	3.97	6.54	3.85	5.95	3.65	5.40	3.53	4.90	3.41	4.41	3.29	3.96	3.16

Low temperature

Evaporation temperature, °C		-23		-25		-27		-29		-31		-33		-35	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA331-LS-H6	20	0.82	0.56	0.75	0.53	0.68	0.51	0.60	0.49	0.52	0.46	0.45	0.44	0.39	0.42
	30	0.66	0.58	0.60	0.55	0.54	0.52	0.47	0.49	0.41	0.46	0.35	0.43	0.30	0.41
	40	0.50	0.59	0.45	0.56	0.41	0.53	0.35	0.49	0.30	0.46	0.25	0.43	0.21	0.40
OA331-LS-H7	20	0.96	0.67	0.88	0.64	0.81	0.61	0.71	0.59	0.62	0.56	0.55	0.53	0.47	0.50
	30	0.78	0.69	0.71	0.66	0.65	0.62	0.57	0.59	0.50	0.56	0.43	0.52	0.37	0.49
	40	0.60	0.71	0.55	0.67	0.49	0.63	0.43	0.60	0.37	0.56	0.32	0.52	0.27	0.48
OA331-LS-H9	20	1.24	0.81	1.13	0.77	1.04	0.74	0.92	0.71	0.82	0.67	0.72	0.64	0.63	0.60
	30	1.01	0.84	0.92	0.80	0.84	0.76	0.75	0.72	0.66	0.68	0.57	0.64	0.50	0.60
	40	0.79	0.88	0.72	0.83	0.65	0.78	0.57	0.73	0.49	0.68	0.42	0.64	0.36	0.59
OA331-LS-H12	20	1.58	1.11	1.45	1.06	1.33	1.02	1.19	0.97	1.05	0.92	0.93	0.88	0.82	0.83
	30	1.30	1.16	1.19	1.10	1.09	1.05	0.97	0.99	0.85	0.94	0.75	0.89	0.66	0.83
	40	1.02	1.21	0.93	1.15	0.85	1.08	0.75	1.02	0.66	0.96	0.57	0.89	0.49	0.83
OA331-LS-H18	20	2.47	1.63	2.27	1.57	2.08	1.50	1.85	1.43	1.64	1.36	1.44	1.29	1.26	1.23
	30	2.02	1.71	1.85	1.63	1.69	1.55	1.49	1.46	1.31	1.38	1.14	1.29	0.99	1.21
	40	1.58	1.79	1.43	1.69	1.30	1.59	1.14	1.49	0.99	1.39	0.85	1.29	0.72	1.19
OA331-LS-H23	20	3.15	2.15	2.90	2.06	2.66	1.97	2.37	1.89	2.10	1.80	1.86	1.72	1.64	1.63
	30	2.60	2.24	2.38	2.14	2.18	2.03	1.94	1.93	1.71	1.82	1.50	1.71	1.31	1.61
	40	2.05	2.34	1.87	2.21	1.70	2.09	1.50	1.96	1.31	1.84	1.14	1.71	0.98	1.59

Q_0 - Cooling capacity, kW Pe - Power consumption, kW



1 - Shut-off valve Rotalock with service valves on the unit's housing
2 - Low pressure relays with fixed settings (mini pressure switch)
3 - Compressor
4 - High pressure relays with fixed settings (mini pressure switch)
5 - Pump with frequency regulation of capacity
6 - Check valve
7 - Cooling water condenser
8 - Refrigerant receiver
9 - Filter drier
10 - Solenoid valve
11 - Shut-off valve with a Schrader valve

Medium temperature

Models	Max. operation current	Starting current	Receiver volume	Sound pressure level	Liquid pipes	Suction pipes	Length	Width	Height	Net weight
	A	A	l	Db (A)	inch	inch	mm	mm	mm	kg
OA331-MS-H6	2.9	11.4	1.6	18	3/8	3/8	810	340	300	35.6
OA331-MS-H13	5.9	19.4	1.6	25	3/8	3/8	810	340	300	37.0
OA331-MS-H15	5.3	19.3	1.6	25	3/8	3/8	810	340	300	37.8
OA331-MS-H18	6.7	22.6	2.3	22	3/8	1/2	810	340	340	52.5
OA331-MS-H29	11.3	33.0	2.3	25	3/8	1/2	810	340	340	53.9
OA331-MS-H32	12.7	39.0	2.3	25	3/8	1/2	810	340	340	54.0
OA331-MS-H41	15.2	45.0	2.3	29	3/8	1/2	810	340	340	54.0
OA331-MS-H56	2 x 12.7	2 x 39.0	2.3	28	3/8	7/8	1276	340	340	80.2
OA331-MS-H82	2 x 15.2	2 x 45.0	2.3	32	3/8	7/8	1276	340	340	80.2

Low temperature

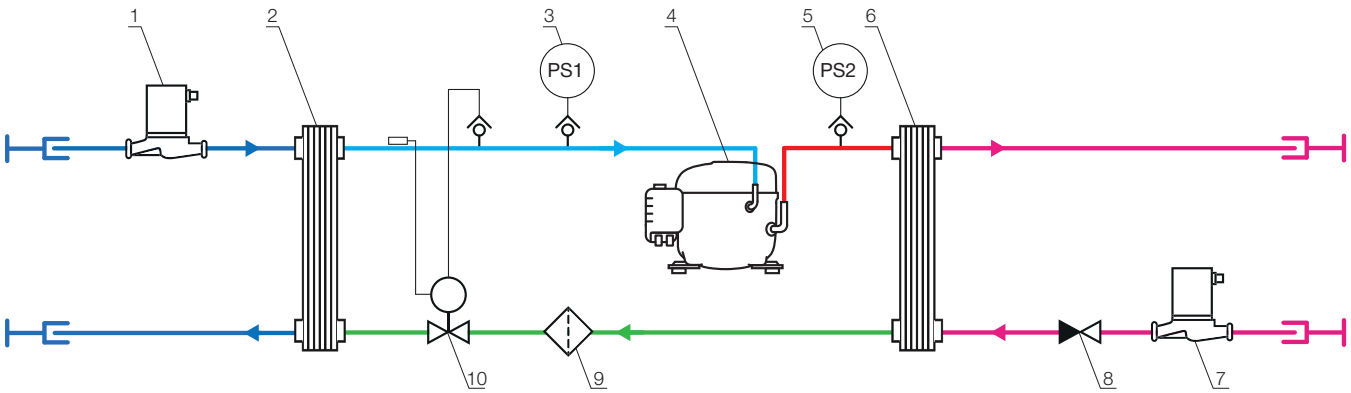
Models	Max. operation current	Starting current	Receiver volume	Sound pressure level	Liquid pipes	Suction pipes	Length	Width	Height	Net weight
	A	A	l	Db (A)	inch	inch	mm	mm	mm	kg
OA331-LS-H6	5.9	21.0	2.3	18	3/8	1/2	810	340	300	52.5
OA331-LS-H7	5.7	27.0	2.3	18	3/8	1/2	810	340	300	53.8
OA331-LS-H9	8.2	30.0	2.3	19	3/8	1/2	810	340	340	53.8
OA331-LS-H12	10.0	40.0	2.3	22	3/8	1/2	810	340	340	54.6
OA331-LS-H18	2 x 8.2	2 x 30.0	2.3	21	3/8	7/8	1276	340	340	79.8
OA331-LS-H23	2 x 10.0	2 x 40.0	2.3	25	3/8	7/8	1276	340	340	81.4

Compressor hermetic Power supply ~1-230V-50Hz Water pipes G3/4''

R290 Chiller

Brine temperature MPG35% inlet/outlet, °C		+10/+8		+8/+4		+6/+2		+4/0		+2/-2		0/-4		-2/-6		-4/-8	
Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OC531-MS-H6	20	1.08	0.29	1.01	0.28	0.94	0.28	0.84	0.27	0.78	0.27	0.71	0.27	0.65	0.26	0.59	0.26
	30	0.93	0.33	0.87	0.32	0.81	0.32	0.73	0.31	0.68	0.31	0.62	0.30	0.56	0.29	0.51	0.29
	40	0.78	0.38	0.73	0.37	0.69	0.36	0.61	0.35	0.57	0.34	0.52	0.33	0.47	0.32	0.43	0.31
OC531-MS-H9	20	1.57	0.43	1.47	0.43	1.37	0.42	1.23	0.41	1.13	0.41	1.03	0.40	0.93	0.39	0.84	0.39
	30	1.38	0.51	1.29	0.50	1.20	0.48	1.07	0.47	0.99	0.46	0.90	0.45	0.81	0.44	0.73	0.43
	40	1.18	0.58	1.10	0.56	1.02	0.55	0.91	0.54	0.84	0.52	0.76	0.51	0.68	0.49	0.61	0.48
OC531-MS-H13	20	2.00	0.50	1.90	0.49	1.79	0.48	1.62	0.47	1.52	0.46	1.41	0.45	1.30	0.44	1.21	0.43
	30	1.77	0.61	1.67	0.59	1.57	0.58	1.42	0.56	1.33	0.55	1.22	0.53	1.13	0.51	1.04	0.50
	40	1.54	0.72	1.45	0.70	1.36	0.67	1.22	0.65	1.13	0.63	1.04	0.61	0.96	0.59	0.87	0.57
OC531-MS-H15	20	2.31	0.78	2.19	0.76	2.06	0.74	1.86	0.71	1.75	0.69	1.62	0.67	1.50	0.64	1.39	0.62
	30	2.05	0.85	1.94	0.83	1.82	0.80	1.65	0.77	1.54	0.74	1.42	0.71	1.31	0.69	1.21	0.66
	40	1.80	0.92	1.69	0.89	1.59	0.86	1.43	0.83	1.33	0.80	1.23	0.76	1.12	0.73	1.03	0.70
OC531-MS-H21	20	OR	OR	3.33	0.93	0.31	0.91	2.77	0.89	2.57	0.86	2.34	0.84	2.12	0.82	1.93	0.80
	30	OR	OR	OR	OR	OR	OR	2.41	1.01	2.23	0.98	2.02	0.95	1.83	0.91	1.66	0.88
	40	OR	OR	OR	OR	OR	OR	2.04	1.14	1.87	1.10	1.71	1.05	1.54	1.01	1.39	0.96
OC531-MS-H28	20	OR	OR	4.11	1.20	0.39	0.12	3.47	1.16	3.25	1.14	2.99	1.11	2.75	1.09	2.54	1.07
	30	OR	OR	OR	OR	OR	OR	3.03	1.35	2.83	1.31	2.60	1.27	2.39	1.24	2.20	1.20
	40	OR	OR	OR	OR	OR	OR	2.59	1.54	2.42	1.49	2.21	1.43	2.03	1.38	1.86	1.33
OC531-MS-H42	20	OR	OR	6.66	1.86	0.62	0.18	5.55	1.77	5.14	1.73	4.67	1.68	4.24	1.63	3.86	1.59
	30	OR	OR	OR	OR	OR	OR	4.82	2.02	4.46	1.96	4.04	1.89	3.66	1.82	3.32	1.76
	40	OR	OR	OR	OR	OR	OR	4.08	2.28	3.77	2.19	3.41	2.10	3.08	2.01	2.79	1.93
OC531-MS-H55	20	OR	OR	8.21	2.41	0.77	0.24	6.91	2.31	6.49	2.27	6.00	2.23	5.51	2.18	5.07	2.14
	30	OR	OR	OR	OR	OR	OR	6.07	2.70	5.66	2.63	5.20	2.55	4.78	2.47	4.40	2.40
	40	OR	OR	OR	OR	OR	OR	5.18	3.08	4.83	3.00	4.43	2.86	4.06	2.76	3.72	2.65

Q_0 - Cooling capacity, kW Pe - Power consumption, kW OR - on request



1 - Pump with integrated inverter
2 - Evaporator
3 - Low pressure switch
4 - Compressor
5 - High pressure switch
6 - Condenser
7 - Pump with integrated inverter
8 - Check valve
9 - Filter drier
10 - Cappilary pipe / Thermostatic expansion valve

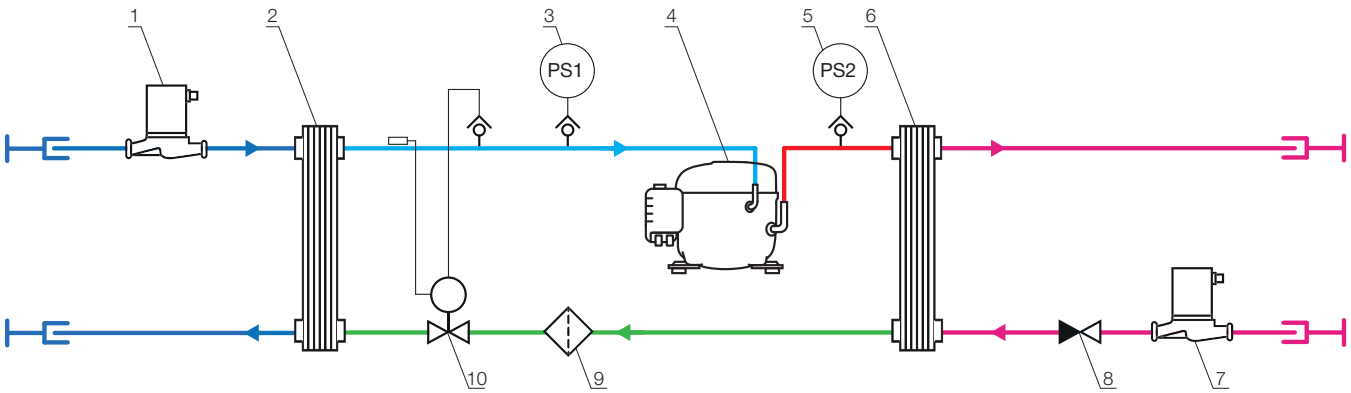
Models	Brine flow	Max. operation current	Starting current	Sound pressure level	Brine pipes	Water pipes	Length	Width	Height	Net weight
	m^3/h	A	A	Db (A)	inch	inch	mm	mm	mm	kg
OC531-MS-H6	0.14	3.3	13.5	25	3/4	G3/4	780	340	300	40.5
OC531-MS-H9	0.21	5.1	17.1	25	3/4	G3/4	780	340	300	41,0
OC531-MS-H13	0.29	5.3	16.2	25	3/4	G3/4	780	340	300	41.5
OC531-MS-H15	0.34	5.8	19.2	25	3/4	G3/4	780	340	300	42.5
OC531-MS-H21	0.47	7,0	30.0	25	3/4	G3/4	780	340	340	52.0
OC531-MS-H28	0.62	8.9	35.0	25	3/4	G3/4	780	340	340	54.0
OC531-MS-H42	0.94	2 x 7.0	2 x 30.0	25	3/4	G3/4	1380	340	340	93.0
OC531-MS-H55	1.23	2 x 8.9	2 x 35.0	25	3/4	G3/4	1380	340	340	95.0

Compressor hermetic Power supply ~1-230V-50Hz

R449A Chiller

Brine temperature MPG35% inlet/outlet, °C		+10/+8		+8/+4		+6/+2		+4/0		+2/-2		0/-4		-2/-6		-4/-8	
Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OC331-MS-H6	20	0.75	0.23	0.71	0.22	0.67	0.22	0.62	0.21	0.58	0.21	0.54	0.20	0.50	0.20	0.47	0.19
	30	0.65	0.26	0.61	0.25	0.57	0.25	0.53	0.23	0.48	0.23	0.44	0.22	0.40	0.22	0.37	0.21
	40	0.56	0.29	0.52	0.28	0.48	0.27	0.43	0.26	0.38	0.25	0.34	0.25	0.30	0.24	0.26	0.23
OC331-MS-H13	20	1.57	0.45	1.49	0.44	1.41	0.43	1.32	0.41	1.23	0.40	1.15	0.39	1.07	0.38	1.01	0.37
	30	1.37	0.51	1.29	0.50	1.21	0.49	1.11	0.47	1.02	0.45	0.94	0.44	0.86	0.43	0.79	0.42
	40	1.17	0.57	1.09	0.56	1.00	0.54	0.91	0.52	0.81	0.50	0.73	0.49	0.65	0.48	0.58	0.46
OC331-MS-H15	20	1.83	0.54	1.73	0.53	1.64	0.52	1.52	0.50	1.41	0.49	1.32	0.47	1.23	0.46	1.15	0.45
	30	1.61	0.60	1.51	0.59	1.41	0.57	1.30	0.55	1.19	0.54	1.09	0.52	1.00	0.51	0.92	0.50
	40	1.39	0.66	1.29	0.65	1.19	0.63	1.08	0.60	0.97	0.59	0.87	0.57	0.77	0.56	0.69	0.54
OC331-MS-H18	20	2.22	0.61	2.12	0.60	2.01	0.59	1.88	0.56	1.76	0.55	1.65	0.53	1.56	0.52	1.48	0.51
	30	1.90	0.69	1.79	0.67	1.68	0.65	1.55	0.62	1.42	0.61	1.31	0.59	1.20	0.57	1.11	0.55
	40	1.59	0.77	1.47	0.75	1.35	0.72	1.22	0.69	1.08	0.66	0.96	0.64	0.85	0.62	0.75	0.60
OC331-MS-H29	20	3.61	0.90	3.44	0.88	3.27	0.85	3.07	0.81	2.87	0.79	2.69	0.77	2.54	0.74	2.41	0.72
	30	3.08	1.02	2.90	0.99	2.71	0.96	2.50	0.91	2.29	0.87	2.10	0.84	1.93	0.81	1.78	0.78
	40	2.55	1.14	2.35	1.10	2.15	1.06	1.94	1.00	1.71	0.96	1.51	0.92	1.33	0.88	1.16	0.85
OC331-MS-H32	20	3.92	1.01	3.73	0.98	3.54	0.95	3.31	0.91	3.08	0.88	2.89	0.86	2.71	0.83	2.56	0.80
	30	3.37	1.13	3.17	1.10	2.97	1.07	2.74	1.01	2.51	0.98	2.30	0.95	2.11	0.92	1.95	0.89
	40	2.82	1.26	2.61	1.22	2.40	1.18	2.17	1.12	1.93	1.08	1.71	1.04	1.52	1.00	1.34	0.97
OC331-MS-H41	20	5.11	1.47	4.83	1.43	4.55	1.39	4.21	1.32	3.89	1.28	3.61	1.24	3.34	1.20	3.11	1.16
	30	4.41	1.62	4.13	1.57	3.85	1.53	3.53	1.45	3.21	1.41	2.92	1.36	2.66	1.31	2.43	1.27
	40	3.71	1.77	3.43	1.72	3.15	1.67	2.84	1.58	2.53	1.53	2.24	1.48	1.98	1.42	1.74	1.38
OC331-MS-H56	20	7.01	1.81	6.64	1.76	6.26	1.71	5.82	1.63	5.39	1.59	5.00	1.54	4.66	1.49	4.35	1.45
	30	5.96	2.03	5.58	1.97	5.21	1.90	4.77	1.80	4.34	1.74	3.96	1.68	3.61	1.61	3.29	1.55
	40	4.91	2.25	4.53	2.17	4.15	2.09	3.73	1.97	3.30	1.89	2.92	1.81	2.56	1.73	2.23	1.66
OC331-MS-H82	20	10.22	2.93	9.66	2.85	9.09	2.77	8.43	2.64	7.78	2.56	7.21	2.48	6.69	2.40	6.23	2.33
	30	8.82	3.24	8.26	3.15	7.70	3.05	7.05	2.90	6.42	2.81	5.85	2.72	5.32	2.63	4.85	2.54
	40	7.43	3.55	6.87	3.44	6.31	3.33	5.68	3.17	5.05	3.06	4.48	2.95	3.95	2.85	3.48	2.75

Q_0 - Cooling capacity, kW Pe - Power consumption, kW



1 - Pump with integrated inverter
2 - Evaporator
3 - Low pressure switch
4 - Compressor
5 - High pressure switch
6 - Condenser
7 - Pump with integrated inverter
8 - Check valve
9 - Filter drier
10 - Cappilary pipe / Thermostatic expansion valve

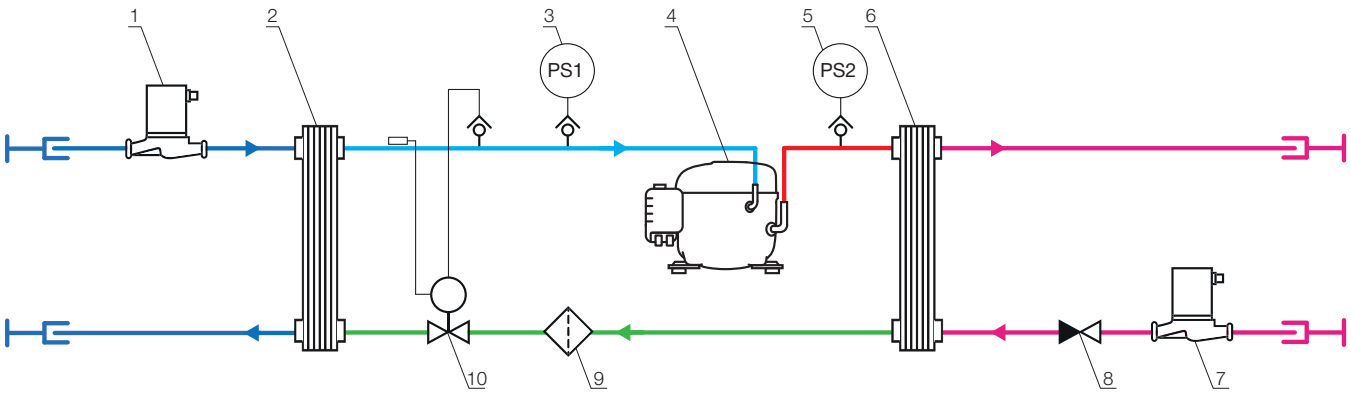
Models	Brine flow	Maximum operating current	Starting current	Sound pressure level	Brine pipes	Water pipes	Length	Width	Heigth	Net weight
	m^3/h	A	A	dB(A)	inch	inch	mm	mm	mm	kg
OC331-MS-H6	0.15	2.9	11.4	18	3/4	G3/4	810	340	300	35.6
OC331-MS-H13	0.32	5.9	19.4	25	3/4	G3/4	810	340	300	37.0
OC331-MS-H15	0.38	5.3	19.3	25	3/4	G3/4	810	340	300	37.8
OC331-MS-H18	0.45	6.7	22.6	22	3/4	G3/4	810	340	340	52.5
OC331-MS-H29	0.73	11.3	33.0	25	3/4	G3/4	810	340	340	53.9
OC331-MS-H32	0.80	12.7	39.0	25	3/4	G3/4	810	340	340	54.0
OC331-MS-H41	1.04	15.2	45.0	29	3/4	G3/4	810	340	340	54.0
OC331-MS-H56	1.60	2 x 12.7	2 x 39	28	3/4	G3/4	1276	340	340	80.2
OC331-MS-H82	2.07	2 x 15.2	2 x 45	32	3/4	G3/4	1276	340	340	80.2

Compressor hermetic Power supply ~1-230V-50Hz

R452A Chiller

Brine temperature MPG35% inlet/outlet, °C		+10/+8		+8/+4		+6/+2		+4/0		+2/-2		0/-4		-2/-6		-4/-8	
Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OC331-MS-H6	20	0.78	0.26	0.73	0.26	0.67	0.25	0.61	0.24	0.55	0.24	0.49	0.24	0.44	0.23	0.39	0.23
	30	0.67	0.29	0.62	0.29	0.57	0.28	0.52	0.27	0.47	0.26	0.42	0.25	0.37	0.25	0.33	0.24
	40	0.56	0.32	0.52	0.32	0.48	0.31	0.43	0.29	0.38	0.28	0.34	0.27	0.30	0.26	0.27	0.25
OC331-MS-H13	20	1.63	0.50	1.52	0.49	1.41	0.48	1.29	0.46	1.17	0.45	1.06	0.44	0.95	0.43	0.86	0.42
	30	1.39	0.57	1.30	0.55	1.20	0.54	1.10	0.51	0.99	0.50	0.89	0.49	0.81	0.47	0.72	0.46
	40	1.15	0.63	1.07	0.62	0.99	0.60	0.90	0.57	0.81	0.55	0.73	0.53	0.66	0.51	0.59	0.50
OC331-MS-H15	20	1.89	0.59	1.77	0.58	1.64	0.57	1.50	0.55	1.36	0.54	1.23	0.53	1.11	0.52	1.00	0.51
	30	1.63	0.66	1.52	0.65	1.41	0.63	1.28	0.60	1.16	0.59	1.05	0.58	0.95	0.56	0.85	0.55
	40	1.37	0.73	1.27	0.71	1.18	0.69	1.07	0.66	0.97	0.64	0.87	0.62	0.78	0.60	0.70	0.58
OC331-MS-H18	20	2.32	0.68	2.16	0.66	1.99	0.65	1.81	0.62	1.63	0.61	1.46	0.60	1.31	0.58	1.17	0.57
	30	1.94	0.76	1.80	0.74	1.67	0.72	1.51	0.69	1.36	0.67	1.21	0.65	1.08	0.63	0.97	0.60
	40	1.57	0.85	1.45	0.82	1.34	0.79	1.21	0.75	1.08	0.72	0.97	0.70	0.86	0.67	0.76	0.64
OC331-MS-H29	20	3.77	0.99	3.51	0.97	3.24	0.95	2.93	0.90	2.63	0.88	2.36	0.86	2.10	0.83	1.87	0.81
	30	3.15	1.12	2.92	1.09	2.69	1.05	2.43	1.00	2.17	0.96	1.94	0.93	1.72	0.89	1.53	0.86
	40	2.52	1.25	2.33	1.21	2.14	1.16	1.93	1.09	1.71	1.05	1.52	1.00	1.34	0.96	1.18	0.91
OC331-MS-H32	20	4.09	1.11	3.80	1.08	3.52	1.06	3.20	1.01	2.88	0.98	2.60	0.96	2.33	0.93	2.09	0.90
	30	3.43	1.25	3.19	1.21	2.95	1.18	2.68	1.12	2.41	1.08	2.16	1.05	1.93	1.01	1.73	0.97
	40	2.78	1.40	2.58	1.35	2.38	1.30	2.15	1.23	1.93	1.18	1.72	1.13	1.53	1.09	1.36	1.04
OC331-MS-H41	20	5.30	1.62	4.93	1.58	4.56	1.54	4.14	1.47	3.74	1.43	3.36	1.39	3.02	1.35	2.70	1.31
	30	4.48	1.79	4.16	1.74	3.84	1.68	3.48	1.60	3.13	1.55	2.81	1.50	2.51	1.45	2.24	1.39
	40	3.66	1.96	3.40	1.90	3.13	1.83	2.82	1.73	2.52	1.67	2.25	1.60	2.00	1.54	1.77	1.47
OC331-MS-H56	20	7.28	1.99	6.77	1.94	6.26	1.90	5.68	1.81	5.12	1.77	4.60	1.72	4.12	1.68	3.68	1.63
	30	6.07	2.24	5.63	2.17	5.19	2.10	4.70	1.98	4.21	1.92	3.77	1.85	3.35	1.78	2.98	1.70
	40	4.85	2.49	4.48	2.40	4.12	2.30	3.71	2.16	3.30	2.06	2.93	1.97	2.59	1.88	2.27	1.78
OC331-MS-H82	20	10.59	3.23	9.86	3.15	9.12	3.07	8.29	2.93	7.47	2.86	6.73	2.78	6.04	2.70	5.41	2.62
	30	8.96	3.58	8.32	3.47	7.69	3.37	6.97	3.20	6.26	3.10	5.62	2.99	5.02	2.89	4.47	2.79
	40	7.33	3.92	6.79	3.79	6.25	3.66	5.65	3.46	5.05	3.34	4.50	3.21	4.00	3.08	3.54	2.95

Q_0 - Cooling capacity, kW Pe - Power consumption, kW



1 - Pump with integrated inverter
2 - Evaporator
3 - Low pressure switch
4 - Compressor
5 - High pressure switch
6 - Condenser
7 - Pump with integrated inverter
8 - Check valve
9 - Filter drier
10 - Cappilary pipe / Thermostatic expansion valve

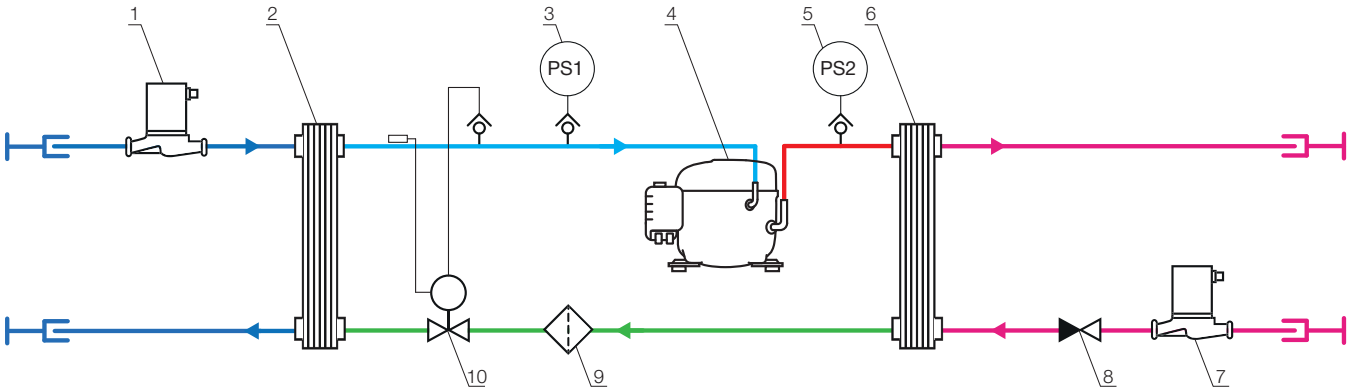
Models	Brine flow	Maximum operating current	Starting current	Sound pressure level	Brine pipes	Water pipes	Length	Width	Heigth	Net weight
	m^3/h	A	A	dB(A)	inch	inch	mm	mm	mm	kg
OC331-MS-H6	0.15	2.9	11.4	18	3/4	G3/4	810	340	300	35.6
OC331-MS-H13	0.32	5.9	19.4	25	3/4	G3/4	810	340	300	37.0
OC331-MS-H15	0.38	5.3	19.3	25	3/4	G3/4	810	340	300	37.8
OC331-MS-H18	0.45	6.7	22.6	22	3/4	G3/4	810	340	340	52.5
OC331-MS-H29	0.73	11.3	33.0	25	3/4	G3/4	810	340	340	53.9
OC331-MS-H32	0.80	12.7	39.0	25	3/4	G3/4	810	340	340	54.0
OC331-MS-H41	1.04	15.2	45.0	29	3/4	G3/4	810	340	340	54.0
OC331-MS-H56	1.60	2 x 12.7	2 x 39	28	3/4	G3/4	1276	340	340	80.2
OC331-MS-H82	2.07	2 x 15.2	2 x 45	32	3/4	G3/4	1276	340	340	80.2

Compressor hermetic Power supply ~1-230V-50Hz

R404A Chiller

Brine temperature MPG35% inlet/outlet, °C		+10/+8		+8/+4		+6/+2		+4/0		+2/-2		0/-4		-2/-6		-4/-8	
Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OC331-MS-H6	20	0.82	0.26	0.76	0.26	0.71	0.25	0.65	0.24	0.59	0.24	0.53	0.24	0.48	0.23	0.43	0.23
	30	0.69	0.30	0.65	0.29	0.60	0.28	0.55	0.27	0.50	0.27	0.45	0.26	0.41	0.25	0.37	0.25
	40	0.57	0.33	0.53	0.32	0.49	0.32	0.45	0.30	0.41	0.29	0.37	0.28	0.33	0.28	0.30	0.27
OC331-MS-H13	20	1.71	0.53	1.61	0.51	1.50	0.50	1.37	0.48	1.26	0.47	1.15	0.46	1.05	0.45	0.96	0.44
	30	1.45	0.59	1.36	0.58	1.27	0.57	1.16	0.54	1.06	0.53	0.97	0.51	0.89	0.50	0.81	0.49
	40	1.19	0.66	1.11	0.64	1.04	0.63	0.95	0.60	0.87	0.58	0.80	0.56	0.73	0.55	0.66	0.53
OC331-MS-H15	20	1.99	0.62	1.86	0.61	1.74	0.60	1.60	0.58	1.46	0.57	1.34	0.56	1.23	0.55	1.12	0.54
	30	1.70	0.69	1.59	0.68	1.49	0.66	1.36	0.64	1.25	0.62	1.14	0.61	1.05	0.59	0.95	0.58
	40	1.41	0.76	1.32	0.75	1.23	0.73	1.13	0.69	1.03	0.68	0.95	0.66	0.86	0.64	0.79	0.62
OC331-MS-H18	20	2.43	0.71	2.27	0.70	2.11	0.68	1.93	0.65	1.76	0.64	1.59	0.63	1.45	0.62	1.31	0.60
	30	2.02	0.80	1.89	0.78	1.76	0.76	1.60	0.72	1.46	0.70	1.32	0.68	1.20	0.66	1.08	0.64
	40	1.62	0.89	1.51	0.86	1.40	0.83	1.28	0.79	1.16	0.77	1.05	0.74	0.95	0.71	0.85	0.68
OC331-MS-H29	20	3.96	1.04	3.70	1.02	3.43	0.99	3.13	0.95	2.84	0.93	2.57	0.90	2.32	0.88	2.09	0.85
	30	3.28	1.18	3.06	1.14	2.83	1.11	2.58	1.05	2.33	1.02	2.11	0.98	1.90	0.95	1.71	0.91
	40	2.60	1.31	2.42	1.26	2.24	1.22	2.03	1.15	1.83	1.11	1.65	1.06	1.48	1.02	1.32	0.97
OC331-MS-H32	20	4.29	1.16	4.01	1.14	3.73	1.11	3.41	1.06	3.11	1.03	2.83	1.01	2.57	0.98	2.33	0.95
	30	3.58	1.31	3.35	1.27	3.11	1.24	2.84	1.18	2.59	1.14	2.35	1.11	2.13	1.07	1.93	1.03
	40	2.87	1.46	2.68	1.41	2.49	1.36	2.27	1.29	2.06	1.25	1.87	1.20	1.69	1.16	1.53	1.1
OC331-MS-H41	20	5.56	1.70	5.20	1.66	4.84	1.61	4.42	1.54	4.03	1.50	3.67	1.46	3.33	1.42	3.01	1.38
	30	4.67	1.87	4.36	1.82	4.06	1.77	3.70	1.68	3.37	1.63	3.06	1.58	2.77	1.53	2.50	1.48
	40	3.78	2.05	3.52	1.99	3.27	1.92	2.98	1.82	2.70	1.76	2.45	1.70	2.21	1.64	1.98	1.58
OC331-MS-H56	20	7.65	2.09	7.15	2.04	6.65	1.99	6.06	1.91	5.52	1.86	5.01	1.81	4.54	1.77	4.11	1.72
	30	6.32	2.35	5.90	2.27	5.48	2.20	4.99	2.09	4.53	2.02	4.10	1.95	3.70	1.88	3.33	1.81
	40	5.00	2.60	4.66	2.51	4.31	2.41	3.91	2.27	3.53	2.18	3.18	2.09	2.85	2.00	2.55	1.90
OC331-MS-H82	20	11.11	3.39	10.40	3.31	9.68	3.23	8.84	3.08	8.06	3.00	7.33	2.92	6.65	2.84	6.03	2.76
	30	9.33	3.74	8.72	3.64	8.11	3.54	7.40	3.37	6.73	3.27	6.11	3.17	5.53	3.06	5.00	2.96
	40	7.56	4.10	7.05	3.97	6.54	3.85	5.95	3.65	5.40	3.53	4.90	3.41	4.41	3.29	3.96	3.16

Q_0 - Cooling capacity, kW Pe - Power consumption, kW



1 - Pump with integrated inverter
2 - Evaporator
3 - Low pressure switch
4 - Compressor
5 - High pressure switch
6 - Condenser
7 - Pump with integrated inverter
8 - Check valve
9 - Filter drier
10 - Cappilary pipe / Thermostatic expansion valve

Models	Brine flow	Maximum operating current	Starting current	Sound pressure level	Brine pipes	Water pipes	Length	Width	Heigth	Net weight
	m^3/h	A	A	dB(A)	inch	inch	mm	mm	mm	kg
OC331-MS-H6	0.15	2.9	11.4	18	3/4	G3/4	810	340	300	35.6
OC331-MS-H13	0.32	5.9	19.4	25	3/4	G3/4	810	340	300	37.0
OC331-MS-H15	0.38	5.3	19.3	25	3/4	G3/4	810	340	300	37.8
OC331-MS-H18	0.45	6.7	22.6	22	3/4	G3/4	810	340	340	52.5
OC331-MS-H29	0.73	11.3	33.0	25	3/4	G3/4	810	340	340	53.9
OC331-MS-H32	0.80	12.7	39.0	25	3/4	G3/4	810	340	340	54.0
OC331-MS-H41	1.04	15.2	45.0	29	3/4	G3/4	810	340	340	54.0
OC331-MS-H56	1.60	2 x 12.7	2 x 39	28	3/4	G3/4	1276	340	340	80.2
OC331-MS-H82	2.07	2 x 15.2	2 x 45	32	3/4	G3/4	1276	340	340	80.2

Compressor hermetic Power supply ~1-230V-50Hz

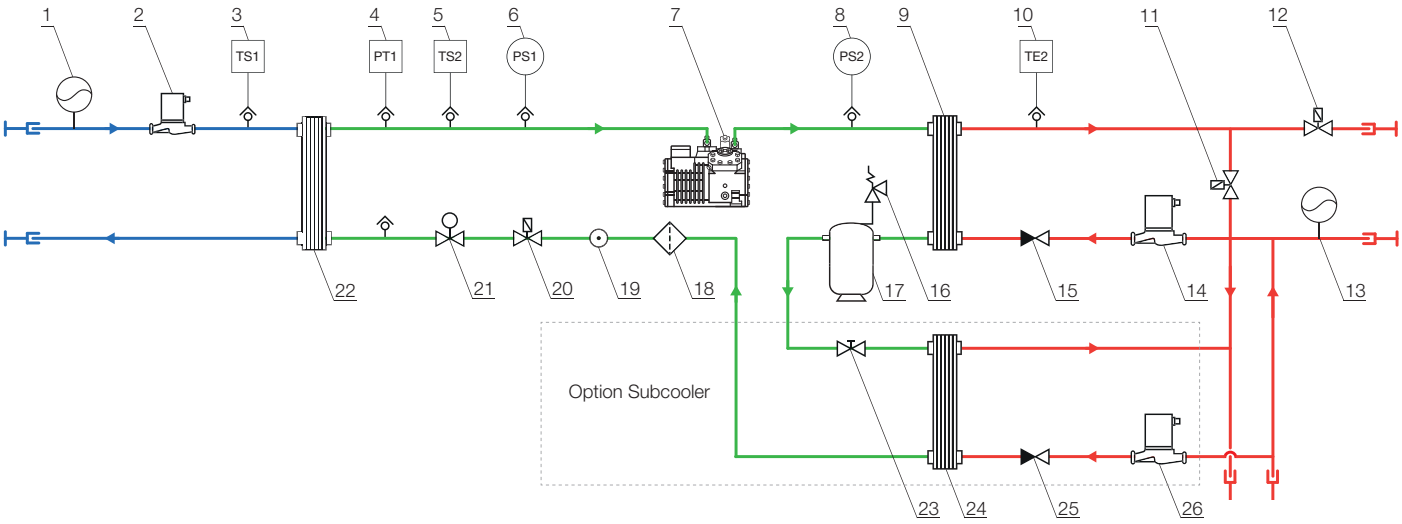
R513A Heat-transformer

Condencing unit	T_{AMB}=27°C					T_{AMB}=32°C					T_{AMB}=38°C					Chilling loop head	Heating loop head
	Q_0	Pe	Qc	V_C	V_H	Q_0	Pe	Qc	V_C	V_H	Q_0	Pe	Q_C	V_C	V_H		
	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	m	m
OC341-HS-E129	14.70	2.98	17.68	2.53	3.05	13.61	3.24	16.84	2.34	2.90	12.35	3.53	15.89	2.13	2.74	9.30	9.60
OC341-HS-E258	29.67	5.41	35.08	5.11	6.04	27.47	5.90	33.37	4.73	5.75	24.83	6.42	31.25	4.28	5.38	7.70	8.40
OC341-HS-E323	36.89	6.84	43.73	6.35	7.53	34.26	7.52	41.78	5.90	7.20	31.16	8.28	39.45	5.37	6.79	6.40	7.50
OC341-HS-E390	44.54	8.06	52.60	7.67	9.06	41.41	8.82	50.23	7.13	8.65	37.58	9.66	47.24	6.47	8.14	7.40	6.40
OC341-HS-E477	54.46	9.85	64.31	9.38	11.08	50.63	10.82	61.46	8.72	10.59	46.11	11.92	58.03	7.94	10.00	6.20	4.80
OC341-HS-E559	64.12	10.88	75.00	11.04	12.92	59.50	12.01	71.51	10.25	12.32	53.90	13.22	67.12	9.28	11.56	6.80	6.90
OC341-HS-E661	75.00	12.91	88.51	13.02	15.25	70.28	14.27	84.55	12.11	14.56	63.84	15.76	79.60	11.00	13.71	5.70	5.80
OC341-HS-E780	89.09	16.11	105.20	15.35	18.12	82.82	17.64	100.47	14.27	17.31	75.17	19.31	94.48	12.95	16.27	9.88	8.30
OC341-HS-E954	108.92	19.70	128.62	18.76	22.15	101.27	21.65	122.91	17.44	21.17	92.22	23.84	116.06	15.88	19.99	8.20	7.50
OC341-HS-E1118	128.24	21.76	150.00	22.09	25.84	119.00	24.02	143.02	20.50	24.64	107.80	26.43	134.23	18.57	23.12	7.70	6.80
OC341-HS-E1322	151.20	25.82	177.02	26.04	30.49	140.56	28.53	169.09	24.21	29.13	127.68	31.53	159.21	21.99	27.42	6.80	4.80

Heating mode

Condencing unit	45 °C		50 °C		55 °C		60 °C		65 °C		70 °C		75 °C	
	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
OC341-HS-E129	17.17	3.13	16.36	3.38	15.56	3.62	14.77	3.85	13.99	4.07	13.22	4.28	12.44	4.49
OC341-HS-E258	34.05	5.71	32.33	6.18	30.54	6.59	28.69	6.96	26.81	7.27	24.86	7.53	22.88	7.74
OC341-HS-E323	42.11	7.26	40.72	7.92	38.63	8.53	36.71	9.10	34.59	9.64	32.49	10.11	30.31	10.54
OC341-HS-E390	51.16	8.53	48.72	9.26	46.11	9.92	43.50	10.51	40.72	11.05	37.93	11.50	35.15	11.88
OC341-HS-E477	62.64	10.44	59.68	11.38	56.72	12.27	53.59	13.07	50.46	13.78	47.15	14.44	43.85	15.00
OC341-HS-E559	72.94	11.56	69.30	12.63	65.66	13.58	61.74	14.43	57.82	15.16	53.62	15.78	49.28	16.27
OC341-HS-E661	86.10	13.73	82.18	15.04	77.98	16.21	73.64	17.29	69.30	18.23	64.54	19.03	59.64	19.68
OC341-HS-E780	102.31	12.18	97.44	13.22	92.22	14.17	87.00	15.01	81.43	15.78	75.86	16.43	70.30	16.98
OC341-HS-E954	125.28	14.91	119.36	16.26	113.45	17.52	107.18	18.67	100.92	19.69	94.31	20.63	87.70	21.43
OC341-HS-E1118	145.88	23.13	138.60	25.26	131.32	27.16	123.48	28.87	115.64	30.32	107.24	31.56	98.56	32.54
OC341-HS-E1322	172.20	27.47	164.36	30.07	155.96	32.42	147.28	34.58	138.60	36.46	129.08	38.05	119.28	39.37

Q_O - Cooling capacity, kW
Q_T - Heating capacity, kW
Q_C - Condenser capacity, kW
Pe - Power consumption, kW
V_C - Coolant flow, m³/h
V_H - Heat carrier flow, m³/h



1 - Expansion vessel
2 - Circulating pump
3 - Temperature sensor
4 - Pressure sensor for EEV
5 - Temperature sensor for EEV
6 - Low pressure switch
7 - Compressor
8 - High pressure switch
9 - Condenser
10 - Temperature sensor
11 - Solenoid valve for dry cooler
12 - Solenoid valve for heating loop
13 - Expansion vessel
14 - Circulating pump
15 - Check valve
16 - Safety valve
17 - Liquid receiver
18 - Filter drier
19 - Sight glass with moisture indicator
20 - Solenoid valve
21 - Electronic expansion valve
22 - Evaporator

Option Subcooler
23 - Outlet shut-off valve
24 - Subcooler
25 - Check valve
26 - Circulating pump

Models	Cooling capacity	Condensing capacity	Coolant flow	Heat carrier flow	Oil charge	Max. operating current	Starting current	Receiver volume	Length	Width	Height	Net weight
	kW	kW	m^3/h	m^3/h	l	A	A	l	mm	mm	mm	kg
OC341-HS-E129	13.61	16.4	2.82	2.30	1.0	6.1	25.5	13.0	1200	790	1200	700
OC341-HS-E258	27.47	32.3	5.57	4.64	2.0	10.8	62.2	13.0	1200	790	1200	750
OC341-HS-E323	34.26	40.6	7.00	5.80	2.0	13.6	62.2	13.0	1200	790	1200	800
OC341-HS-E390	41.41	48.8	8.40	6.98	2.0	16.5	82.4	13.0	1200	790	1200	850
OC341-HS-E477	50.63	59.8	10.29	8.57	2.0	20.2	82.4	13.0	1200	790	1200	900
OC341-HS-E559	59.50	69.3	11.94	10.06	2.6	28.2	81.0 / 132.0	20.0	1500	790	1200	1000
OC341-HS-E661	70.28	82.1	14.14	11.89	2.6	33.2	97.0 / 158.0	20.0	1500	790	1200	1100
OC341-HS-E780	82.82	97.5	16.80	13.97	4.0	2 x 16.5	2 x 82.4	25.0	2000	790	1200	1200
OC341-HS-E954	101.27	119.5	20.58	17.14	4.0	2 x 20.2	2 x 82.4	25.0	2000	790	1200	1300
OC341-HS-E1118	119.00	138.7	23.88	20.11	5.2	2 x 28.2	2 x 81.0 / 2 x 132.0	25.0	2000	790	1200	1500
OC341-HS-E1322	140.56	164.2	28.28	23.78	5.2	2 x 33.2	2 x 92.0 / 2 x 158.0	25.0	2000	790	1200	1600

Power supply ~3-380V-50Hz Chilled loop G2'' Heating loop G2'' Dry cooler loop G2''

R450A Heat-transformer

Condencing unit	T_{AMB}=27°C					T_{AMB}=32°C					T_{AMB}=38°C					Chilling loop head	Heating loop head
	Q_0	Pe	Qc	V_C	V_H	Q_0	Pe	Qc	V_C	V_H	Q_0	Pe	Q_C	V_C	V_H		
	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	m	m
OC341-HS-E129	12.55	2.54	15.09	2.16	2.60	11.68	2.77	14.44	2.01	2.49	10.68	3.03	13.71	1.84	2.36	9.30	9.60
OC341-HS-E258	25.28	4.61	29.89	4.35	5.15	23.52	5.03	28.55	4.05	4.92	21.42	5.50	26.92	3.69	4.64	7.70	8.40
OC341-HS-E323	31.44	5.78	37.22	5.42	6.41	29.39	6.37	35.76	5.06	6.16	26.95	7.03	33.98	4.64	5.85	6.40	7.50
OC341-HS-E390	38.11	5.84	44.94	6.56	7.74	35.50	7.50	43.00	6.11	7.41	32.40	8.23	40.63	5.58	7.00	7.40	6.40
OC341-HS-E477	46.46	8.33	54.79	8.00	9.44	43.50	9.17	52.67	7.49	9.07	39.67	10.11	49.78	6.83	8.57	6.20	4.80
OC341-HS-E559	54.74	9.32	64.06	9.43	11.03	50.96	10.28	61.24	8.78	10.55	46.48	11.31	57.79	8.01	9.95	6.80	6.90
OC341-HS-E661	64.54	11.05	75.59	11.12	13.02	60.20	12.19	72.39	10.37	12.47	55.16	13.45	68.61	9.50	11.82	5.70	5.80
OC341-HS-E780	76.21	13.68	89.89	13.13	15.48	70.99	15.00	85.99	12.23	14.81	64.80	16.46	81.26	11.16	14.00	9.88	8.30
OC341-HS-E954	92.92	16.67	109.59	16.00	18.88	87.00	18.34	105.34	14.99	18.14	79.34	20.22	99.56	13.67	17.15	8.20	7.50
OC341-HS-E1118	109.48	18.65	128.13	18.86	22.07	101.92	20.55	122.47	17.56	21.10	92.96	22.62	115.58	16.01	19.91	7.70	6.80
OC341-HS-E1322	128.08	22.09	151.17	22.23	26.04	120.40	24.39	144.79	20.74	24.94	110.32	26.91	137.23	19.00	23.64	6.80	4.80

Heating mode

Condencing unit	45 °C		50 °C		55 °C		60 °C		65 °C		70 °C		75 °C	
	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
OC341-HS-E129	14.70	2.68	14.08	2.89	13.47	3.10	12.88	3.29	12.28	3.48	11.71	3.67	11.15	3.85
OC341-HS-E258	29.08	4.85	27.74	5.27	26.36	5.64	24.93	5.95	23.51	6.23	22.03	6.47	20.53	6.66
OC341-HS-E323	36.37	6.14	34.80	6.72	33.39	7.24	31.89	7.73	30.33	8.18	28.74	8.60	27.16	8.96
OC341-HS-E390	43.67	7.24	41.76	7.86	39.85	8.46	37.76	8.98	35.84	9.45	33.67	9.85	31.53	10.20
OC341-HS-E477	53.42	8.84	51.16	9.66	48.89	10.41	46.63	11.10	44.20	11.73	41.76	12.28	39.32	12.79
OC341-HS-E559	62.30	9.91	59.50	10.81	56.70	11.62	53.62	12.35	50.68	12.98	47.46	13.51	44.10	13.96
OC341-HS-E661	73.64	11.75	70.56	12.85	67.34	13.85	63.98	14.77	60.48	15.57	57.12	16.27	53.48	16.86
OC341-HS-E780	87.35	10.34	83.52	11.24	79.69	12.08	75.52	12.83	71.69	13.50	67.34	14.07	63.06	14.57
OC341-HS-E954	106.84	12.63	102.31	13.80	97.79	14.86	93.26	15.86	88.39	16.75	83.52	17.55	78.65	18.27
OC341-HS-E1118	124.60	19.82	119.00	21.62	113.40	23.24	107.24	24.70	101.36	25.96	94.92	27.02	88.20	27.92
OC341-HS-E1322	147.28	23.49	141.12	25.70	134.68	27.69	127.96	29.54	120.96	31.14	114.24	32.54	106.96	33.71

Q_O - Cooling capacity, kW

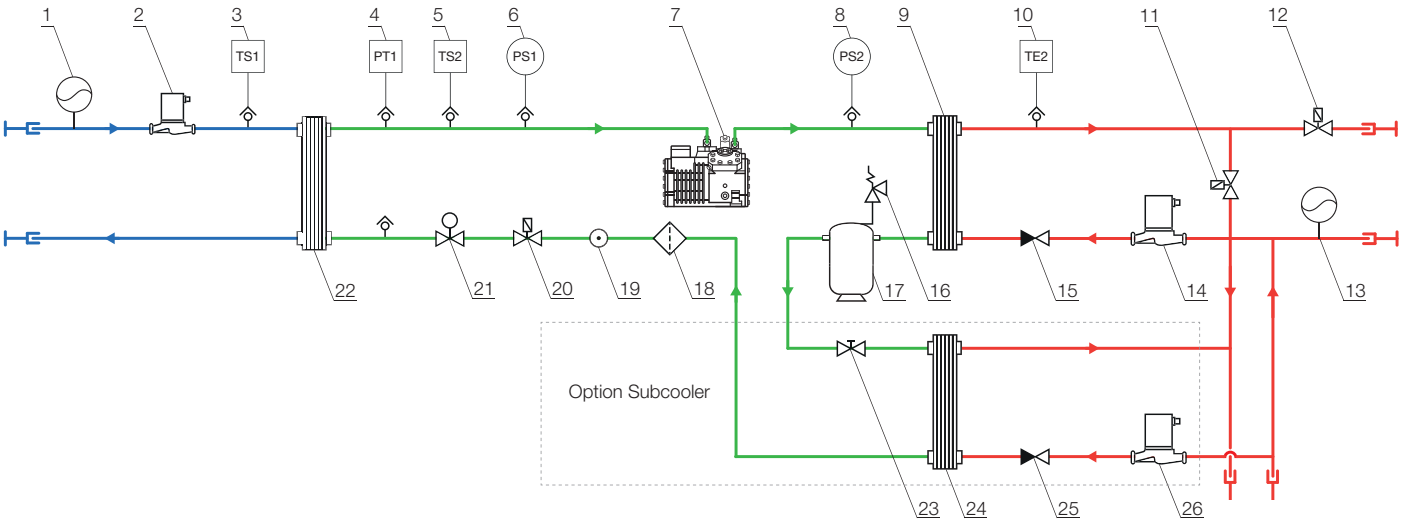
Q_T - Heating capacity, kW

Q_C - Condenser capacity, kW

Pe - Power consumption, kW

V_C - Coolant flow, m³/h

V_H - Heat carrier flow, m³/h



1 - Expansion vessel
2 - Circulating pump
3 - Temperature sensor
4 - Pressure sensor for EEV
5 - Temperature sensor for EEV
6 - Low pressure switch
7 - Compressor
8 - High pressure switch
9 - Condenser
10 - Temperature sensor
11 - Solenoid valve for dry cooler
12 - Solenoid valve for heating loop
13 - Expansion vessel
14 - Circulating pump
15 - Check valve
16 - Safety valve
17 - Liquid receiver
18 - Filter drier
19 - Sight glass with moisture indicator
20 - Solenoid valve
21 - Electronic expansion valve
22 - Evaporator

Option Subcooler
23 - Outlet shut-off valve
24 - Subcooler
25 - Check valve
26 - Circulating pump

Models	Cooling capacity	Condensing capacity	Coolant flow	Heat carrier flow	Oil charge	Max. operating current	Starting current	Receiver volume	Length	Width	Height	Net weight
	kW	kW	m³/h	m³/h	l.	A	A	l.	mm	mm	mm	kg
OC341-HS-E129	11.68	16.4	2.82	2.30	1.0	6.1	25.5	13.0	1200	790	1200	700
OC341-HS-E258	23.52	32.3	5.57	4.64	2.0	10.8	62.2	13.0	1200	790	1200	750
OC341-HS-E323	29.39	40.6	7.00	5.80	2.0	13.6	62.2	13.0	1200	790	1200	800
OC341-HS-E390	35.50	48.8	8.40	6.98	2.0	16.5	82.4	13.0	1200	790	1200	850
OC341-HS-E477	43.50	59.8	10.29	8.57	2.0	20.2	82.4	13.0	1200	790	1200	900
OC341-HS-E559	50.96	69.3	11.94	10.06	2.6	28.2	81.0 / 132.0	20.0	1500	790	1200	1000
OC341-HS-E661	60.20	82.1	14.14	11.89	2.6	33.2	97.0 / 158.0	20.0	1500	790	1200	1100
OC341-HS-E780	70.99	97.5	16.80	13.97	4.0	2 x 16.5	2 x 82.4	25.0	2000	790	1200	1200
OC341-HS-E954	87.00	119.5	20.58	17.14	4.0	2 x 20.2	2 x 82.4	25.0	2000	790	1200	1300
OC341-HS-E1118	101.92	138.7	23.88	20.11	5.2	2 x 28.2	2 x 81.0 / 2 x 132.0	25.0	2000	790	1200	1500
OC341-HS-E1322	120.10	164.2	28.28	23.78	5.2	2 x 33.2	2 x 92.0 / 2 x 158.0	25.0	2000	790	1200	1600

Power supply ~3-380V-50Hz Chilled loop G2'' Heating loop G2'' Dry cooler loop G2''

R134a Heat-transformer

Condencing unit	T_{AMB}=27°C					T_{AMB}=32°C					T_{AMB}=38°C					Chilling loop head	Heating loop head
	Q_0	Pe	Qc	V_C	V_H	Q_0	Pe	Qc	V_C	V_H	Q_0	Pe	Q_C	V_C	V_H		
	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	m	m
OC341-HS-E129	14.36	2.85	17.21	2.47	2.96	13.38	3.10	16.48	2.30	2.84	12.25	3.38	15.63	2.11	2.69	9.30	9.60
OC341-HS-E258	28.92	5.19	34.10	4.98	5.87	26.94	5.66	32.59	4.64	5.61	24.71	6.16	30.87	4.26	5.32	7.70	8.40
OC341-HS-E323	36.02	6.56	42.58	6.20	7.33	33.65	7.22	40.87	5.80	7.04	30.90	7.95	38.85	5.32	6.69	6.40	7.50
OC341-HS-E390	43.50	7.74	51.24	7.49	8.83	40.54	8.47	49.02	6.98	8.44	37.24	9.26	46.49	6.41	8.01	7.40	6.40
OC341-HS-E477	53.24	9.45	62.69	9.17	10.80	49.76	10.39	60.15	8.57	10.36	45.59	11.43	57.02	7.85	9.82	6.20	4.80
OC341-HS-E559	62.58	10.43	73.01	10.78	12.58	58.38	11.51	69.89	10.06	12.04	53.34	12.67	66.01	9.19	11.37	6.80	6.90
OC341-HS-E661	73.78	12.38	86.16	12.71	14.84	69.02	13.68	82.70	11.89	14.24	63.28	15.11	78.39	10.90	13.50	5.70	5.80
OC341-HS-E780	87.00	15.49	102.49	14.99	17.65	81.08	16.95	98.03	13.97	16.89	74.47	18.51	92.99	12.83	16.02	9.88	8.30
OC341-HS-E954	106.49	18.90	125.38	18.34	21.60	99.53	20.78	120.30	17.14	20.72	91.18	22.86	114.04	15.70	19.64	8.20	7.50
OC341-HS-E1118	125.16	20.86	146.02	21.56	25.15	116.76	23.02	139.78	20.11	24.08	106.68	25.34	132.02	18.38	22.74	7.70	6.80
OC341-HS-E1322	147.56	24.75	172.31	25.42	29.68	138.04	27.36	165.40	23.78	28.49	126.56	30.21	156.77	21.80	27.00	6.80	4.80

Heating mode

Condencing unit	45 °C		50 °C		55 °C		60 °C		65 °C		70 °C		75 °C	
	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe	Q_T	Pe
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
OC341-HS-E129	16.76	2.99	16.04	3.24	15.35	3.46	14.67	3.69	14.01	3.90	13.36	4.09	12.72	4.30
OC341-HS-E258	33.22	5.48	31.67	5.92	30.10	6.32	28.50	6.66	26.83	6.98	25.14	7.22	23.39	7.43
OC341-HS-E323	41.59	6.96	39.85	7.59	38.11	8.18	36.37	8.73	34.70	9.24	32.89	9.69	31.04	10.11
OC341-HS-E390	49.94	8.18	47.85	8.87	45.59	9.52	43.15	10.07	40.89	10.60	38.45	11.03	36.02	11.40
OC341-HS-E477	61.07	10.02	58.64	10.93	56.03	11.76	53.24	12.53	50.63	13.22	47.85	13.76	44.89	14.39
OC341-HS-E559	71.12	11.09	68.04	12.11	64.68	13.02	61.32	13.83	57.82	14.55	54.18	15.13	50.40	15.61
OC341-HS-E661	84.00	13.17	80.50	14.41	76.86	15.55	73.22	16.58	69.30	17.47	65.38	18.62	61.04	18.87
OC341-HS-E780	99.88	11.68	95.70	12.68	91.18	13.60	86.30	14.39	81.78	15.14	76.91	15.76	72.04	16.28
OC341-HS-E954	122.15	14.32	117.28	15.61	112.06	16.80	106.76	17.90	101.27	18.89	95.70	19.66	89.78	20.56
OC341-HS-E1118	142.24	22.18	136.08	24.22	129.36	26.04	122.64	27.66	115.64	29.09	108.36	30.27	100.80	31.22
OC341-HS-E1322	168.00	26.35	161.00	28.81	153.72	31.11	146.44	33.15	138.60	34.94	130.76	37.24	122.08	37.74

Q_O - Cooling capacity, kW

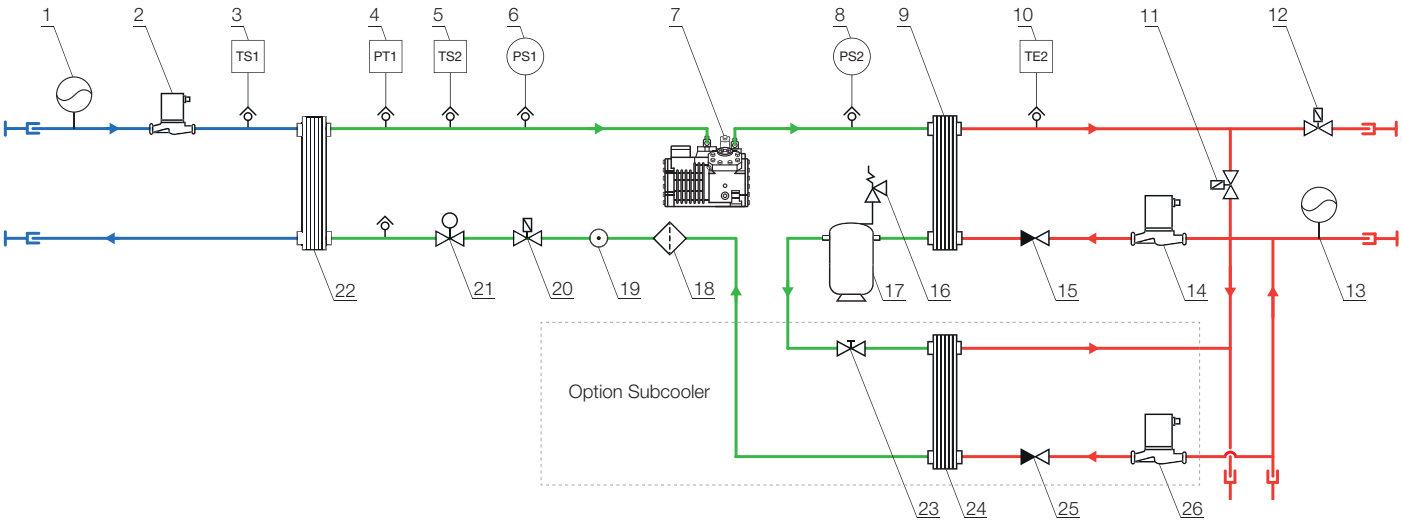
Q_T - Heating capacity, kW

Q_C - Condenser capacity, kW

Pe - Power consumption, kW

V_C - Coolant flow, m³/h

V_H - Heat carrier flow, m³/h



1 - Expansion vessel
2 - Circulating pump
3 - Temperature sensor
4 - Pressure sensor for EEV
5 - Temperature sensor for EEV
6 - Low pressure switch
7 - Compressor
8 - High pressure switch
9 - Condenser
10 - Temperature sensor
11 - Solenoid valve for dry cooler
12 - Solenoid valve for heating loop
13 - Expansion vessel
14 - Circulating pump
15 - Check valve
16 - Safety valve
17 - Liquid receiver
18 - Filter drier
19 - Sight glass with moisture indicator
20 - Solenoid valve
21 - Electronic expansion valve
22 - Evaporator

Option Subcooler
23 - Outlet shut-off valve
24 - Subcooler
25 - Check valve
26 - Circulating pump

Models	Cooling capacity	Condensing capacity	Coolant flow	Heat carrier flow	Oil charge	Max. operating current	Starting current	Receiver volume	Length	Width	Height	Net weight
	kW	kW	m^3/h	m^3/h	l.	A	A	l.	mm	mm	mm	kg
OC341-HS-E129	13.38	16.4	2.82	2.30	1.0	6.1	25.5	13.0	1200	790	1200	700
OC341-HS-E258	26.94	32.3	5.57	4.64	2.0	10.8	62.2	13.0	1200	790	1200	750
OC341-HS-E323	33.65	40.6	7.00	5.80	2.0	13.6	62.2	13.0	1200	790	1200	800
OC341-HS-E390	40.54	48.8	8.40	6.98	2.0	16.5	82.4	13.0	1200	790	1200	850
OC341-HS-E477	49.76	59.8	10.29	8.57	2.0	20.2	82.4	13.0	1200	790	1200	900
OC341-HS-E559	58.38	69.3	11.94	10.06	2.6	28.2	81.0 / 132.0	20.0	1500	790	1200	1000
OC341-HS-E661	69.02	82.1	14.14	11.89	2.6	33.2	97.0 / 158.0	20.0	1500	790	1200	1100
OC341-HS-E780	81.08	97.5	16.80	13.97	4.0	2 x 16.5	2 x 82.4	25.0	2000	790	1200	1200
OC341-HS-E954	99.53	119.5	20.58	17.14	4.0	2 x 20.2	2 x 82.4	25.0	2000	790	1200	1300
OC341-HS-E1118	116.76	138.7	23.88	20.11	5.2	2 x 28.2	2 x 81.0 / 2 x 132.0	25.0	2000	790	1200	1500
OC341-HS-E1322	138.04	164.2	28.28	23.78	5.2	2 x 33.2	2 x 92.0 / 2 x 158.0	25.0	2000	790	1200	1600

Power supply ~3-380V-50Hz Chilled loop G2'' Heating loop G2'' Dry cooler loop G2''

R744 Heat-transformer

Condencing unit	T_{AMB}=27°C				T_{AMB}=32°C				T_{AMB}=38°C				Chilling loop head	Chilling loop-1 head	Chilling loop-2 head
	Q_0 max	Q_0 min	P max	Q_H max	Q_0 max	Q_0 min	P max	Q_H max	Q_0 max	Q_0 min	P max	Q_H max			
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	m	m	m
OC541-HS-E194	21.4	9.2	5.97	27.4	19.4	8.2	5.97	25.3	17.2	7.4	5.97	23.1	8.70	9.20	9.20
OC541-HS-E282	31.2	13.4	8.69	39.9	28.2	11.9	8.69	36.8	25.0	10.7	8.69	33.6	7.20	4.30	4.30
OC541-HS-E376	41.7	17.9	11.64	53.4	37.6	15.9	11.64	49.3	33.4	14.3	11.64	45.0	6.30	7.30	7.30
OC541-HS-E540	59.8	25.6	16.48	76.3	54.0	22.8	16.48	70.5	48.0	20.6	16.48	64.5	6.90	6.70	6.70
OC541-HS-E710	78.4	33.6	21.5	99.9	71.0	30.0	21.5	92.5	63.2	27.1	21.5	84.7	6.80	7.20	7.20
OC541-HS-E1078	118.7	50.9	32.17	150.9	107.8	45.5	32.17	139.9	96.3	41.3	32.17	128.4	7.20	10.00	10.00
OC541-HS-E1814	198.6	85.1	54.35	252.9	181.4	76.6	54.35	235.7	162.0	69.4	54.35	216.4	7.40	10.00	10.00

Heating mode

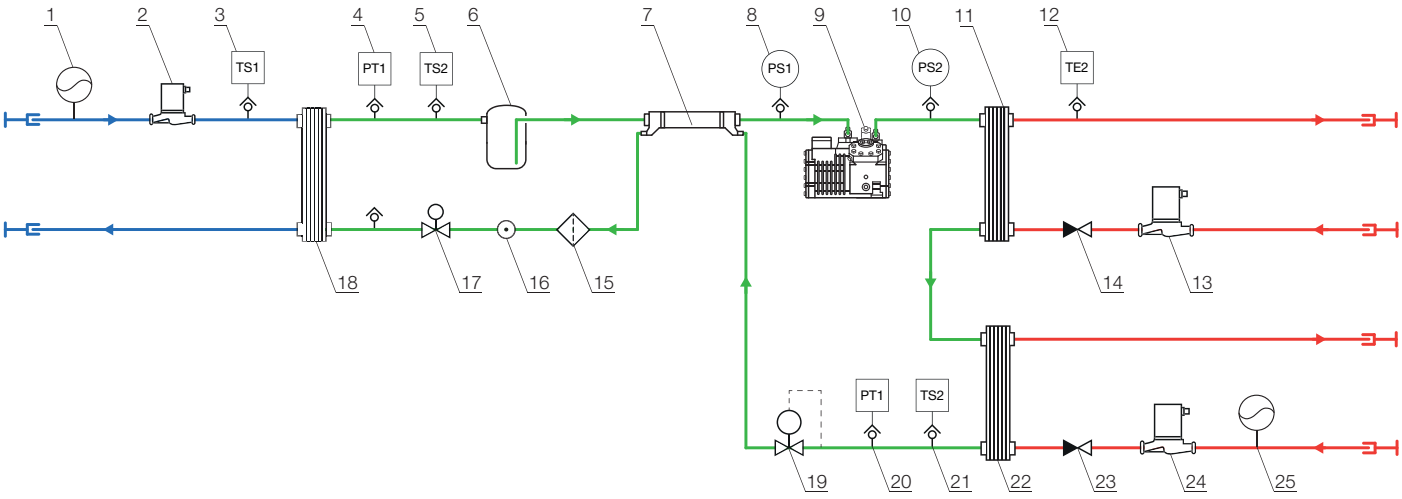
Condencing unit	45 °C		50 °C		55 °C		60 °C		65 °C		70 °C		75 °C	
	P max	Q_H max	P max	Q_H max	P max	Q_H max	P max	Q_H max	P max	Q_H max	P max	Q_H max	P max	Q_H max
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
OC541-HS-E194	5.97	15.4	5.97	12.3	5.97	10.0	5.97	8.3	5.97	6.7	5.97	5.4	5.97	4.1
OC541-HS-E282	8.69	22.4	8.69	17.8	8.69	14.6	8.69	12.0	8.69	9.8	8.69	7.8	8.69	6.0
OC541-HS-E376	11.64	30.0	11.64	23.8	11.64	19.5	11.64	16.1	11.64	13.1	11.64	10.4	11.64	8.0
OC541-HS-E540	16.48	43.0	16.48	34.2	16.48	28.1	16.48	23.1	16.48	18.8	16.48	15.0	16.48	11.5
OC541-HS-E710	21.50	56.4	21.50	44.9	21.50	36.9	21.50	30.4	21.50	24.8	21.50	19.7	21.50	15.1
OC541-HS-E1078	32.17	85.3	32.17	68.2	32.17	56.3	32.17	46.4	32.17	37.8	32.17	30.1	32.17	23.0
OC541-HS-E1814	54.35	142.7	54.35	114.8	54.35	94.7	54.35	78.0	54.35	63.6	54.35	50.6	54.35	38.7

Q_O max - Maximum cooling capacity, kW

Q_O min - Minimum cooling capacity, kW

P max - Maximum power consumption, kW

Q_H max - Maximum heating capacity, kW



1 - Expansion vessel
2 - Circulating pump
3 - Temperature sensor
4 - Pressure sensor for EEV
5 - Temperature sensor for EEV
6 - Liquid separator
7 - Heat exchanger
8 - Low pressure switch
9 - Compressor
10 - High pressure switch
11 - Gas cooler
12 - Temperature sensor
13 - Circulating pump
14 - Check valve
15 - Filter drier
16 - Sight glass with moisture indicator
17 - Electronic expansion valve
18 - Evaporator
19 - HP-valve
20 - Pressure sensor
21 - Temperature sensor
22 - Gas cooler
23 - Check valve
24 - Circulating pump
25 - Expansion vessel

Models	Cooling capacity	Power consumption	Heating capacity	Coolant flow	Oil charge	Max. operating current	Starting current	Length	Width	Height	Net weight
	kW	kW	kW	m^3/h	l	A	A	mm	mm	mm	kg
OC541-HS-E194	19.4	5.97	25.37	3.67	1.2	11.5	62	1200	790	1200	700
OC541-HS-E282	28.2	8.69	36.89	5.33	1.2	16.1	82	1200	790	1200	750
OC541-HS-E376	37.6	11.64	49.24	7.13	2.0	21.9	97	1200	790	1200	800
OC541-HS-E540	54.0	16.48	70.48	10.23	2.6	30.2	81 / 132	1200	790	1200	850
OC541-HS-E710	71.0	21.50	92.50	13.45	2.6	39.2	97 / 158	1200	790	1200	900
OC541-HS-E1078	107.8	32.17	139.97	20.42	2.8	58.7	135 / 220	1500	790	1200	1000
OC541-HS-E1814	181.4	54.35	235.75	34.36	2.8	98.0	226 / 404	1500	790	1200	1100

Power supply ~3-380V-50Hz Chilled loop G2'' Heating loop G2'' Dry cooler loop G2''

Dry Cooler

Models	Capacity[1]	Fan diameter	Number of fans	Fan type	Air flow	Power consumption	Noise level	Heat exchange surface	Brine flow	Pressure drop	Internal volume
Standard	kW	mm			m^3/h	kW	dB	m^2	m^3/h	bar	l
OH531-150S1E-C21	13.6	500	1	EC	7055	0.50	30	55.8	2.55	0.72	6.2
OH531-250S1E-C21	27.1	500	2	EC	14110	1.00	33	111.7	5.07	0.63	12.4
OH531-350S1E-C21	40.6	500	3	EC	21165	1.50	35	167.5	7.60	0.59	18.6
OH531-163S3E-C21	23.0	630	1	EC	9799	0.70	38	124.1	4.31	0.57	13.8
OH531-263S3E-C21	45.9	630	2	EC	19598	1.40	41	248.2	8.59	0.51	27.6
OH531-363S3E-C21	68.9	630	3	EC	29397	2.10	44	372.3	12.88	0.49	41.4
Quiet											
OH531-150Q1E-C21	10.7	500	1	EC	5244	0.25	37	55.8	2.01	0.47	6.2
OH531-250Q1E-C21	21.4	500	2	EC	10487	0.50	40	111.7	4.00	0.41	12.4
OH531-350Q1E-C21	32.0	500	3	EC	15731	0.75	44	167.5	5.99	0.39	18.6
OH531-163Q1E-C21	15.8	630	1	EC	7251	0.24	29	124.1	3.29	0.37	13.8
OH531-263Q1E-C21	31.4	630	2	EC	12921	0.48	32	248.2	5.87	0.26	27.6
OH531-363Q1E-C21	47.0	630	3	EC	19382	0.72	35	372.3	8.80	0.26	41.4

Models	Length	Width	Height	Connections	Net weight	Air flow
	mm	mm	mm	inch	kg	
OH531-1501E-C21	1090	940	965	G1''	60	vertical
OH531-2501E-C21	2000	940	965	G1 3/4''	120	vertical
OH531-3501E-C21	2900	940	965	G2''	180	vertical
OH531-1501E-C21	1090	940	965	G1''	60	vertical
OH531-2501E-C21	2000	940	965	G1 3/4''	120	vertical
OH531-3501E-C21	2900	940	965	G2''	180	vertical

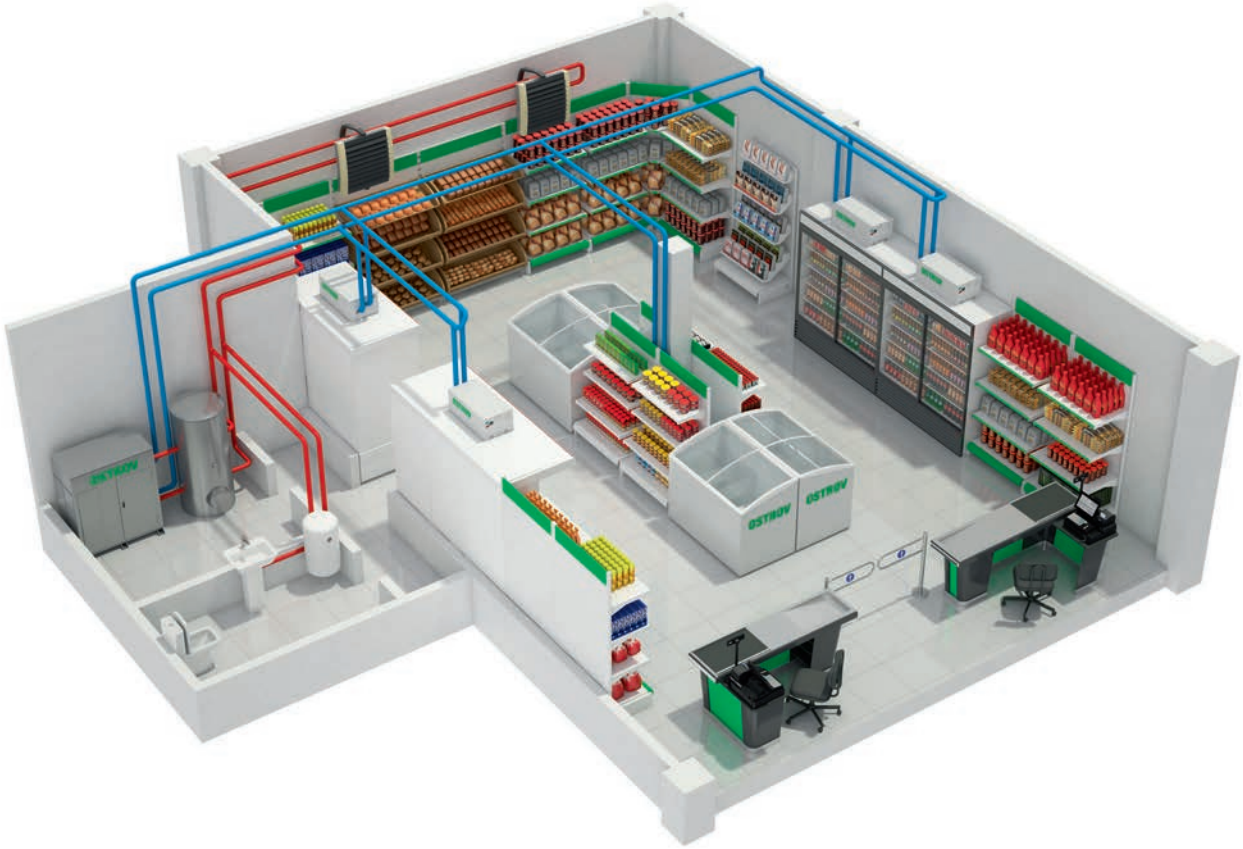
[1] T_{AMB}=+32°C, propylene glycol 40%, 42C/37C

Models	Capacity[1]	Fan diameter	Number of fans	Fan type	Air flow	Power consumption	Noise level	Heat exchange surface	Brine flow	Pressure drop	Internal volume
Standard	kW	mm			m^3/h	kW	dB	m^2	m^3/h	bar	l
OH521-150S1E-C21	13.6	500	1	EC	7055	0.50	30	55.8	2.55	0.72	6.2
OH521-250S1E-C21	27.1	500	2	EC	14110	1.00	33	111.7	5.07	0.63	12.4
OH521-350S1E-C21	40.6	500	3	EC	21165	1.50	35	167.5	7.60	0.59	18.6
OH521-163S3E-C21	23.0	630	1	EC	9799	0.70	38	124.1	4.31	0.57	13.8
OH521-263S3E-C21	45.9	630	2	EC	19598	1.40	41	248.2	8.59	0.51	27.6
OH521-363S3E-C21	68.9	630	3	EC	29397	2.10	44	372.3	12.88	0.49	41.4
Quiet											
OH521-150Q1E-C21	10.7	500	1	EC	5244	0.25	37	55.8	2.01	0.47	6.2
OH521-250Q1E-C21	21.4	500	2	EC	10487	0.50	40	111.7	4.00	0.41	12.4
OH521-350Q1E-C21	32.0	500	3	EC	15731	0.75	44	167.5	5.99	0.39	18.6
OH521-163Q1E-C21	15.8	630	1	EC	7251	0.24	29	124.1	3.29	0.37	13.8
OH521-263Q1E-C21	31.4	630	2	EC	12921	0.48	32	248.2	5.87	0.26	27.6
OH521-363Q1E-C21	47.0	630	3	EC	19382	0.72	35	372.3	8.80	0.26	41.4

Models	Length	Width	Height	Connections	Net weight	Air flow
	mm	mm	mm	inch	kg	
OH521-1501E-C21	1090	940	965	G1''	60	horizontal
OH521-2501E-C21	2000	940	965	G1 3/4''	120	horizontal
OH521-3501E-C21	2900	940	965	G2''	180	horizontal
OH521-1501E-C21	1090	940	965	G1''	60	horizontal
OH521-2501E-C21	2000	940	965	G1 3/4''	120	horizontal
OH521-3501E-C21	2900	940	965	G2''	180	horizontal

[1] T_{AMB}=+32°C, propylene glycol 40%, 42C/37C

Shop

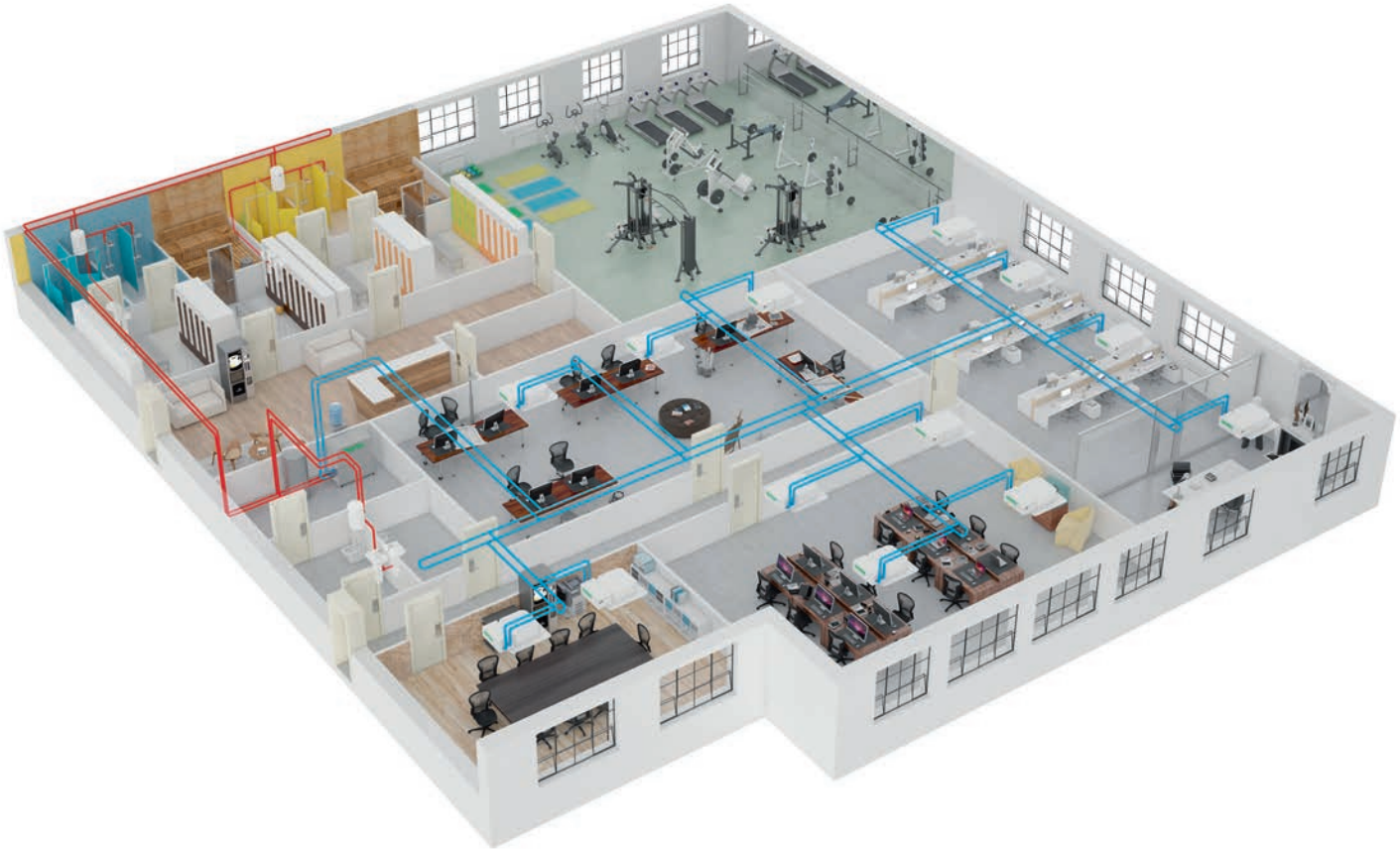


Petrol Station

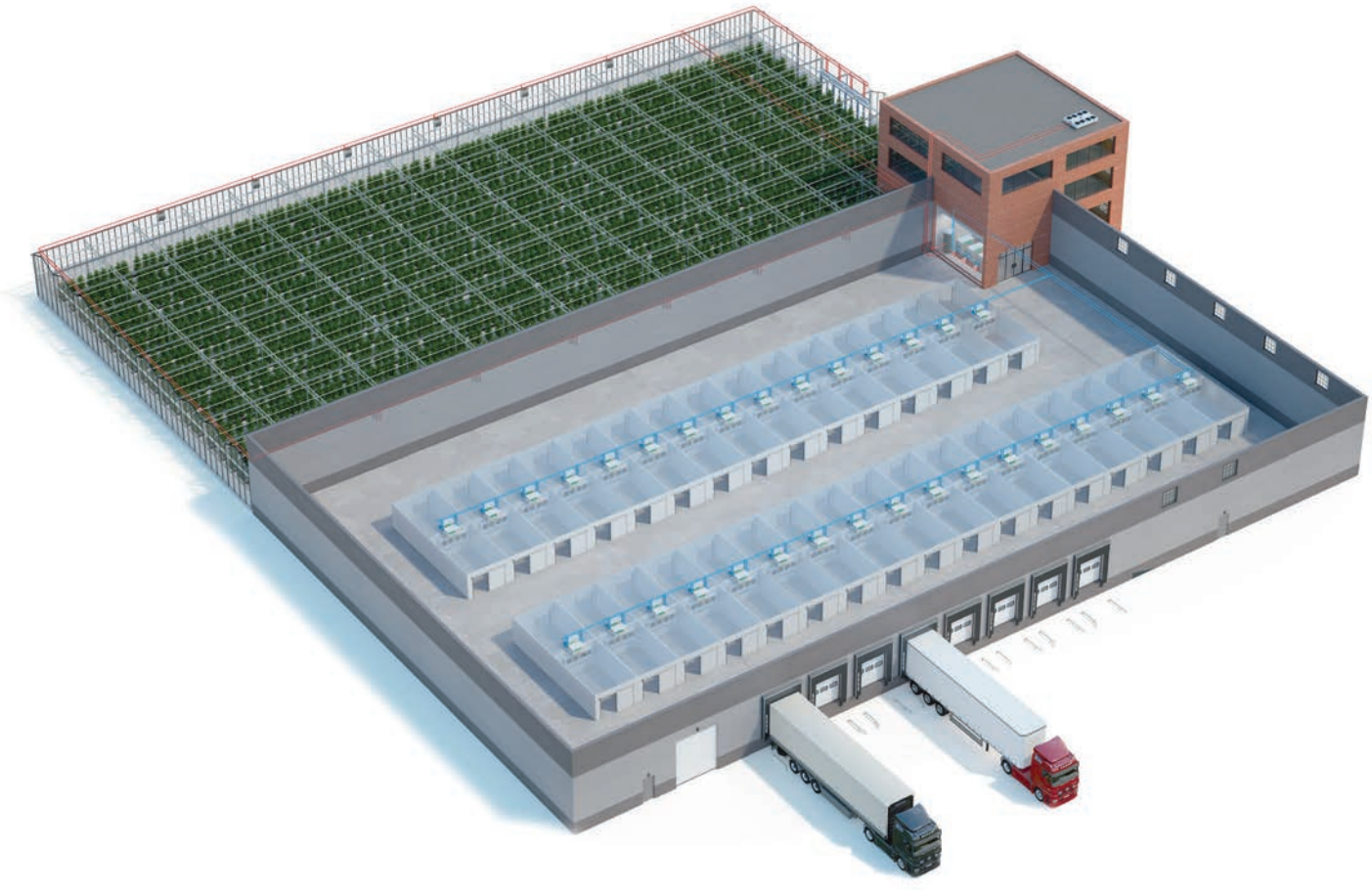
Hotel

Restaurant

Office



Cold Storage

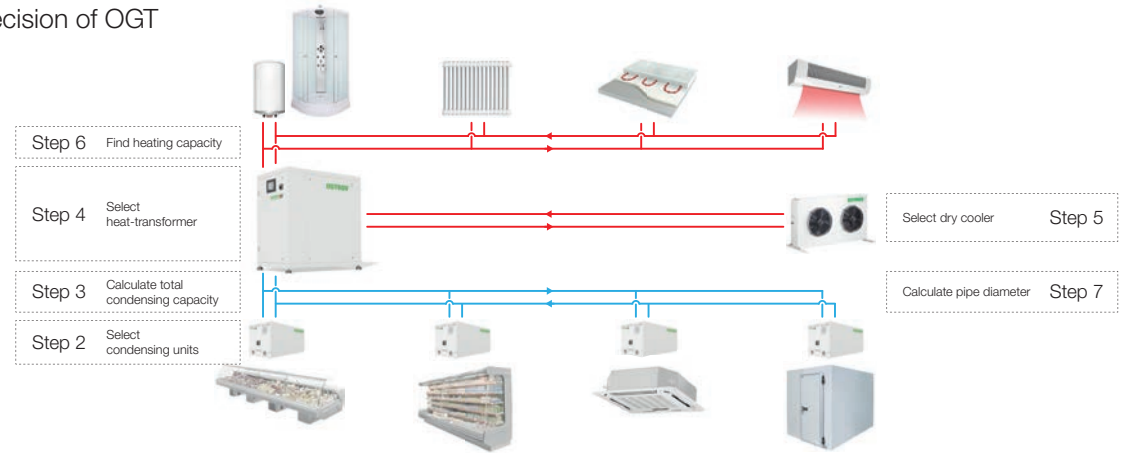


Design of systems

OSTROV

Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Step 7

1. Take decision of OGT



2. Select plug-in unit OA330 for each cabinet or cold room according to cooling capacity. Water temperature T_W=+20°C.

Evaporation temperature, °C		+2		0		-2		-4		-6		-8		-10		-12	
Models	Water temperature	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW	Q_0, kW	Pe, kW
OA331-MS-H13	20	1.57	0.45	1.49	0.44	1.41	0.43	1.32	0.41	1.23	0.40	1.15	0.39	1.07	0.38	1.01	0.37
	30	1.37	0.51	1.29	0.50	1.21	0.49	1.11	0.47	1.02	0.45	0.94	0.44	0.86	0.43	0.79	0.42
	40	1.17	0.57	1.09	0.56	1.00	0.54	0.91	0.52	0.81	0.50	0.73	0.49	0.65	0.48	0.58	0.46

3. Calculate total condensing capacity from all plug-in units ($\Sigma Q_C=\Sigma Q_0+\Sigma P_E$).

4. Select heat transformer according to ambient conditions and cooling capacity ($Q_0=\Sigma Q_C$).

Condencing unit	T_{AMB}=27°C					T_{AMB}=32°C					T_{AMB}=38°C					Chilling loop head	Heating loop head
	Q_0	Ne	Qc	V_C	V_H	Q_0	Ne	Qc	V_C	V_H	Q_0	Ne	Q_C	V_C	V_H		
	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	kW	kW	kW	m³/h	m³/h	m	m
OC341-HS-E323	36.89	6.84	43.73	6.35	7.53	34.26	7.52	41.78	5.90	7.20	31.16	8.28	39.45	5.37	6.79	6.40	7.50
OC341-HS-E390	~~44.54~~	~~8.06~~	~~52.60~~	~~7.67~~	~~9.06~~	41.41	8.82	50.23	7.13	8.65	37.58	9.66	47.24	6.47	8.14	7.40	6.40

5. Select dry cooler according to condensing capacity of heat transformer ($Q_C=Q_0+P_E$).

Models	Capacity[1]	Fan diameter	Number of fans	Fan type	Air flow	Brine flow	Pressure drop	Power consumption	Noise level	Heat exchange surface	Internal volume
Standard	kW	mm			m³/h	m³/h	bar	kW	dB	m²	l
OH531-263S3E-C21	45.9	630	2	EC	19598	8.59	0.51	1.40	41	248.2	27.6
OH531-363S3E-C21	68.9	630	3	EC	29397	12.88	0.49	2.10	44	372.3	41.4

6. Find heating capacity for needed water temperature.

Condencing unit	Heating mode													
	45 °C		50 °C		55 °C		60 °C		65 °C		70 °C		75 °C	
	Q_T	Ne	Q_T	Ne	Q_T	Ne	Q_T	Ne	Q_T	Ne	Q_T	Ne	Q_T	Ne
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
OC341-HS-E390	~~51.16~~	~~8.53~~	~~48.72~~	~~9.26~~	~~46.11~~	~~9.92~~	43.50	10.51	40.72	11.05	37.93	11.50	35.15	11.88
OC341-HS-E477	62.64	10.44	59.68	11.38	56.72	12.27	53.59	13.07	50.46	13.78	47.15	14.44	43.85	15.00

7. Calculate diameter for water loop pipes.

Cooling capacity	kW	8.0	12.0	20.0	32.0	50.0	80.0	120.0	160.0	240.0	310.0	390.0
Pipe diameter	mm	20.0	25.0	32.0	40.0	50.0	63.0	75.0	90.0	110.0	125.0	140.0
Water flow	m³/h	1.4	2.1	3.5	5.4	8.5	14.0	20.0	28.0	42.0	54.0	68.0
Pressure drop	kPa/m	2.1	1.5	1.2	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3

Documentation

OSTROV

Data sheets

Complete technical data for each model.

CAD Drawings

General view drawings. PDF & DWG format.

3D Models

3D models. DWG format. 1:1 scale.

Wiring diagrams

Schemes of electrical connections.

Price list

Current price list.

Operating instructions

Detailed instructions for installation and operation.

Package

Dimensions and weights of packed products.

Selection guide

Easy way to select OGT units. Useful application information.

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