Indoor monobloc unit

LEW 40 - 680 kW

Scroll compressor | R-410A refrigerant | Cooling only | Heating only | Cooling / Heating

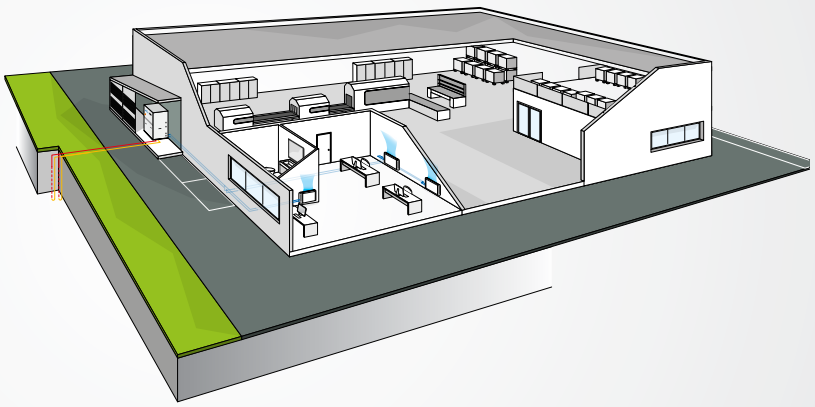
PLUS

- Electronic expansion valve
- Up to 6 compressors
- 1 or 2 cooling circuits
- Remote connectivity to the most common protocols
- Compact dimensions
- Low noise levels thanks to complete enclosure panelling

Compact and efficient water-water units

LEW water chillers and reversible heat pumps are air conditioning or process fluid conditioning units conceived for both residential and industrial use and designed to operate 24 hours a day. They cover a wide range of heating capacities, from 40 to 680 kW, guaranteeing a high thermodynamic efficiency and broad configurability, both in terms of accessories and cooling circuits.
The LEW units are developed in a completely enclosed version for a low noise operation making it possible to install them in non-segregated environments. The use of R410A as refrigerating fluid and top quality components for the cooling, hydraulic and electric systems guarantees high technical level of the LEW units of the chillers in terms of efficiency, reliability and reduced noise levels.
The LEW series is characterised by reduced footprint, high COP during the thermodynamic cycle, no external noise, reduced refrigerant charge.
The range of LEW units can be combined with geothermal probes used to dissipate in soil.
The LEW series is available as a cooling unit only, combined with a cooling tower or with water from a well or mains, a heat pump only for heating and reversible heat pumps on cooling circuit side.
The versions are in turn developed in two different acoustic systems: Standard and Low Noise.
Hydraulic modules complete with pumps on user side and dissipation side are available in a low noise version to be installed alongside the basic unit.
All units, irrespective of type of construction, are equipped with electronic expansion valves to maximise efficiency under part load conditions.

The possibility of keeping the evaporator indoors means there is no need to add glycol to the water inside the system. In addition, you can keep all components requiring maintenance in an easily accessible room.



MAIN COMPONENTS

Structure

Made in galvanised steel sheet with a polyester powder coating for outdoors.
The compressor compartment is completely sealed and may be accessed on 3 sides thanks to easy-to-remove panels that greatly simplify maintenance and/or inspection.

Scroll compressors

The scroll compressors are today the best solution in terms of reliability and sound power level. The compressors are supplied complete with motor protection against overheating, overcurrents and excessive outlet gas temperatures.

Heat exchangers

All units have heat exchangers with braze-welded AISI 316 austenitic stainless steel plates and connections made of AISI 316 L, characterised by a reduced carbon content to facilitate brazing.

Cooling circuit

Can be produced in three different versions using the same power size (Efficiency Pack), it mainly uses R410A scroll compressors, brazed plate heat exchangers, finned coil condenser, electronic expansion valves.

Electronic microprocessor controller

Allows the complete management of the unit. The electronic control system allows the setpoint to be adjusted automatically according to the outdoor temperature in order to reduce consumption and broaden the working temperature range. With the advanced microprocessor control it is possible to set up LAN networks for controlling 4 units in parallel.

CONFIGURATION

The models are completely configurable by selecting the version and the options. To the right is shown an example of configuration.

Version	Fields ▶	1	2	3	4	5	6	7	8	9	10
LEW132HL		2	B	0	P	0	1	G	0	0	2

To verify the compatibility of the options, use the selection software or the price list.

AVAILABLE VERSIONS

Cooling only versions

- **LEW...CS** Operating with mains or well water, standard version
- **LEW...CL** Operating with mains or well water, low-noise version
- **LEW...DS** Operating with dry-cooler or tower water, standard version
- **LEW...DL** Operating with dry-cooler or tower water, low-noise version

Versions with heat pump

- **LEW...HS** Reversible, standard execution
- **LEW...HL** Reversible, low noise execution
- **LEW...WS** Heating only, standard execution
- **LEW...WL** Heating only, low-noise execution

CONFIGURATION OPTIONS

1 - REFRIGERANT - POWER SUPPLY
- **0** 400/3/50 + N + fuse protectors
- **2** 400/3/50 + N + Circuit breakers

2 – CONTROL MICROPROCESSOR + THROTTLE VALVE
- **0** Base + electronic expansion valve
- **A** Base + traditional expansion valve
- **B** Advanced + electronic expansion valve
- **C** Advanced + traditional expansion valve

3 – PARTIAL HEAT RECOVERY (the addition of "modulation - air side" option is mandatory)
- **0** Absent
- **D** Partial recovery only available with advanced control microprocessor (if field 2 = "B" or "C")

4 – AIR FLOW MODULATION SOURCE SIDE
- **0** Absent
- **P** Condensation control with modulated signal 0-10V (signal), available only if field 2 = "B" or "C"

5 – AIR FLOW MODULATION USER SIDE
- **0** Absent
- **D** Air flow modulation with output signal in ΔT logic = cost
- **T** Air flow modulation with output signal in T logic = cost

6 - REMOTE COMMUNICATION
- **0** Absent
- **1** RS485 Serial board (Modbus or Carel protocol)
- **2** Lonwork serial board (if field 2 = "B" or "C")
- **3** GSM modem kit (if field 2 = "B" or "C")
- **4** pCOWEB Ethernet card (SNMP or BACNET protocol) - (if field 2 = "B" or "C")
- **5** pCOWEB Ethernet card (SNMP or BACNET protocol) + supervision software - (if field 2 = "B" or "C")

7 – BASE VIBRATION DAMPERS
- **0** Absent
- **G** Base rubber vibration dumpers
- **M** Base spring vibration dumpers

8 - PACKING
- **0** Standard
- **1** Wooden crate
- **2** Wooden case

9 - REMOTE CONTROLLER
- **0** Absent
- **1** Simplified remote control panel
- **2** Remote display for BASE microprocessor - (if field 2= "0" or "A")
- **3** Remote display for ADVANCED microprocessor - (available only if field 2 = "B" or "C")

10 – INSULATED EXTERNAL HYDRAULIC MODULE SEPARATED FROM THE MAIN UNIT
- **0** Absent
- **1** Module with pumps (LP unit + LP dissipation)
- **2** Module with pumps (LP unit + LP inverter dissipation), ONLY IF FIELD 4 = P
- **3** Module with pumps (LP unit + HP dissipation)
- **4** Module with pumps (LP unit + HP inverter dissipation), ONLY IF FIELD 4 = P
- **5** Module with pumps (HP unit + LP dissipation)
- **6** Module with pumps (HP unit + LP inverter dissipation), ONLY IF FIELD 4 = P
- **7** Module with pumps (HP unit + HP dissipation)
- **8** Module with pumps (HP unit + HP inverter dissipation), ONLY IF FIELD 4 = P
- **0** Standard
- **S** Special

ACCESSORIES

- **A** Power factor correction capacitors
- **B** Soft-starter kit
- **C** Service kit: kit of sensors for quick diagnosis (only if field 2 = "B" or "C")
- **D** Clock card (if field 2 = "B" or "C")
- **E** ON/OFF status of the compressors
- **F** Restricted power remote contact (gradual) (only if field 2 = "B" or "C")
- **G** Configurable digital alarm card (only if field 2 = "B" or "C")
- **H** Pressure gauges
- **I** Four Victaulic couplings for quick water IN-OUT connection
- **L** Regulating filter kit (solenoid and tap on the liquid line)
- **M** Outdoor temperature probe for setpoint compensation (only if field 2 = "B" or "C")
- **N** Water temp. probe on dissipation side for Version = "H" or "W" (only if field 10= 0)
- **P** Unit lifting kit

Rated technical data of LEW D water chillers

LEW D		041	042	051	052	061	062	071	072
Power supply	V - ph - Hz	400 - 3N - 50							
Cooling capacity (1) (E)	kW	48,4	47,6	56,4	56,3	65,1	64,9	73,5	73,4
Power input (1) (E)	kW	10,6	9,90	12,7	12,7	13,8	13,8	16,0	16,0
EER (1) (E)		4,32	4,52	4,17	4,16	4,44	4,43	4,31	4,31
ESEER (E)		4,99	5,37	4,79	5,14	5,10	5,43	4,97	5,34
Eurovent efficiency class		C	C	D	D	C	C	C	C
Water flow rate user side (1)	l/h	8364	8219	9743	9724	11236	11212	12695	12685
Pressure drop, user side (1) (E)	kPa	34	33	45	45	37	37	45	45
Water flow rate source side (1)	l/h	10171	9919	11907	11888	13610	13582	15433	15422
Pressure drop, source side (1) (E)	kPa	45	43	60	60	47	47	60	60
Maximum current absorption	A	30	30	37	37	40	40	46	46
Startup current	A	111	111	156	156	157	157	164	164
Startup current with softstarter kit	A	73	73	83	83	102	102	107	107
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-DS: Sound power level (2) (E)	dB(A)	72	72	72	72	73	73	73	73
LEW-DL: Sound power level (2) (E)	dB(A)	68	68	68	68	69	69	69	69
Transport / operating weight	kg	372	362	432	422	442	432	452	442

LEW D		081	082	091	092	111	112	131	132
Power supply	V - ph - Hz	400 - 3N - 50							
Cooling capacity (1) (E)	kW	84,7	84,6	93,9	94,0	114	114	130	130
Power input (1) (E)	kW	17,4	17,5	19,9	19,9	23,1	23,1	26,7	26,7
EER (1) (E)		4,60	4,60	4,45	4,45	4,69	4,68	4,58	4,58
ESEER (E)		5,24	5,56	5,17	5,56	5,20	5,76	5,34	6,43
Eurovent efficiency class		C	C	C	C	B	B	C	C
Water flow rate user side (1)	l/h	14621	14604	16214	16228	19647	19634	22354	22375
Pressure drop, user side (1) (E)	kPa	35	35	43	43	37	37	46	46
Water flow rate source side (1)	l/h	17616	17601	19630	19645	23617	23607	26943	26965
Pressure drop, source side (1) (E)	kPa	46	46	57	57	47	47	60	61
Maximum current absorption	A	50	50	61	61	70	71	79	79
Startup current	A	176	176	203	203	238	275	244	244
Startup current with softstarter kit	A	117	117	137	137	176	210	182	182
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-DS: Sound power level (2) (E)	dB(A)	74	74	76	76	76	76	77	77
LEW-DL: Sound power level (2) (E)	dB(A)	70	70	72	72	72	72	73	73
Transport / operating weight	kg	472	462	512	492	563	553	573	563

LEW D		141	142	144	161	162	164	181	182	184
Power supply	V - ph - Hz	400 - 3N - 50								
Cooling capacity (1) (E)	kW	149	149	149	168	167	169	196	196	191
Power input (1) (E)	kW	30,9	30,9	31,7	34,9	34,9	34,8	40,9	40,9	39,4
EER (1) (E)		4,58	4,59	4,46	4,58	4,57	4,62	4,57	4,57	4,62
ESEER (E)		5,25	5,49	5,42	5,16	5,49	5,55	5,19	5,59	5,63
Eurovent efficiency class		C	C	C	C	C	C	C	C	C
Water flow rate user side (1)	l/h	25693	25727	25692	28910	28861	29104	33824	33845	32864
Pressure drop, user side (1) (E)	kPa	43	43	43	47	47	47	50	50	47
Water flow rate source side (1)	l/h	30993	31025	31136	34897	34845	35072	40842	40870	39630
Pressure drop, source side (1) (E)	kPa	56	56	57	49	49	50	55	55	51
Maximum current absorption	A	91	91	92	102	102	100	116	116	122
Startup current	A	289	289	197	298	298	211	361	361	250
Startup current with softstarter kit	A	224	224	140	233	233	152	278	278	184
No. of compressors / circuits		2/2	2/1	4/2	2/2	2/1	4/2	2/2	2/1	4/2
LEW-DS: Sound power level (2) (E)	dB(A)	77	77	80	77	77	80	78	78	81
LEW-DL: Sound power level (2) (E)	dB(A)	73	73	76	73	73	76	74	74	77
Transport / operating weight	kg	633	618	723	673	653	743	713	693	853

Rated technical data of LEW D water chillers

LEW D		204	214	243	244	283	284	314	344
Power supply	V - ph - Hz	400 - 3N - 50							
Cooling capacity (1) (E)	kW	209	226	257	266	294	297	328	353
Power input (1) (E)	kW	42,6	46,1	52,0	52,7	61,5	61,5	70,5	76,3
EER (1) (E)		4,70	4,67	4,78	4,88	4,62	4,67	4,47	4,44
ESEER (E)		5,74	5,73	5,66	5,89	5,64	5,52	5,47	5,45
Eurovent efficiency class		B	B	B	B	C	B	C	C
Water flow rate user side (1)	l/h	36109	39008	44169	45744	50710	51237	56518	60824
Pressure drop, user side (1) (E)	kPa	47	54	28	29	35	37	44	50
Water flow rate source side (1)	l/h	43430	46932	53105	54802	61268	61798	68600	73894
Pressure drop, source side (1) (E)	kPa	51	60	36	38	46	47	58	54
Maximum current absorption	A	132	142	153	159	174	182	204	218
Startup current	A	321	328	336	301	401	355	374	437
Startup current with softstarter kit	A	256	263	271	239	318	290	309	354
No. of compressors / circuits		4/2	4/2	3/1	4/2	3/1	4/2	4/2	4/2
LEW-DS: Sound power level (2) (E)	dB(A)	81	81	81	82	81	82	82	83
LEW-DL: Sound power level (2) (E)	dB(A)	77	77	77	78	77	78	78	79
Transport / operating weight	kg	873	923	953	983	1053	1093	1253	1293

LEW D		374	424	484	485	535	576	636
Power supply	V - ph - Hz	400 - 3N - 50						
Cooling capacity (1) (E)	kW	383	434	497	485	548	588	653
Power input (1) (E)	kW	82,2	91,5	101	106	120	129	145
EER (1) (E)		4,48	4,56	4,70	4,56	4,57	4,57	4,50
ESEER (E)		5,51	5,74	5,83	5,88	5,83	5,92	5,82
Eurovent efficiency class		C	C	B	C	C	C	C
Water flow rate user side (1)	l/h	66023	74859	85636	83581	94418	101358	112593
Pressure drop, user side (1) (E)	kPa	47	51	49	49	51	50	60
Water flow rate source side (1)	l/h	80108	90561	103068	101114	114116	122524	136309
Pressure drop, source side (1) (E)	kPa	54	54	59	54	67	66	80
Maximum current absorption	A	232	281	302	290	256	348	424
Startup current	A	442	490	525	552	551	610	621
Startup current with softstarter kit	A	359	420	454	406	495	464	565
No. of compressors / circuits		4/2	4/2	4/2	5/2	5/2	6/2	6/2
LEW-DS: Sound power level (2) (E)	dB(A)	83	83	86	84	84	85	85
LEW-DL: Sound power level (2) (E)	dB(A)	79	79	82	80	80	81	81
Transport / operating weight	kg	1333	1413	1520	1950	1950	2100	2100

(1) Water temperature - user side 12 / 7°C, water temperature - dissipation side 30 / 35 °C (14511:2011)
(2) Sound power level measured according to UNI EN ISO 9614
(E) EUROVENT certified data

Rated technical data of LEW C water chillers

LEW C		041	042	051	052	061	062	071	072
Power supply	V - ph - Hz	400 - 3N - 50Hz							
Cooling capacity (1)	kW	51,6	50,8	59,8	59,7	68,7	68,8	77,5	77,4
Power input (1)	kW	9,26	8,65	11,2	11,2	12,4	12,4	14,3	14,3
EER (1)		5,37	5,64	5,13	5,12	5,35	5,36	5,21	5,20
Water flow rate user side (1)	l/h	8923	8777	10342	10328	11871	11880	13388	13379
Pressure drop, user side (1)	kPa	39	38	50	50	40	40	49	49
Water flow rate source side (1)	l/h	3496	3414	4076	4072	4653	4656	5266	5264
Pressure drop, source side (1)	kPa	7	7	9	9	12	12	15	15
Maximum current absorption	A	30	30	37	37	40	40	46	46
Startup current	A	111	111	156	156	157	157	164	164
Startup current with softstarter kit	A	73	73	83	83	102	102	107	107
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-CS: Sound power level (2)	dB(A)	72	72	72	72	73	73	73	73
LEW-CL: Sound power level (2)	dB(A)	68	68	68	68	69	69	69	69
Transport / operating weight	kg	370	360	430	420	440	430	450	440

LEW C		081	082	091	092	111	112	131	132
Power supply	V - ph - Hz	400 - 3N - 50Hz							
Cooling capacity (1)	kW	88,7	88,6	98,6	98,7	118	118	135	135
Power input (1)	kW	15,8	15,9	18,1	18,1	21,4	21,3	24,7	24,6
EER (1)		5,40	5,39	5,25	5,26	5,34	5,35	5,25	5,26
Water flow rate user side (1)	l/h	15314	15300	17033	17049	20405	20420	23283	23275
Pressure drop, user side (1)	kPa	39	39	47	47	39	39	50	50
Water flow rate source side (1)	l/h	5997	5993	6694	6699	8004	8008	9149	9145
Pressure drop, source side (1)	kPa	18	18	22	22	30	30	38	38
Maximum current absorption	A	50	50	61	61	70	71	79	79
Startup current	A	176	176	203	203	238	275	244	244
Startup current with softstarter kit	A	117	117	137	137	176	210	182	182
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-CS: Sound power level (2)	dB(A)	74	74	76	76	76	76	77	77
LEW-CL: Sound power level (2)	dB(A)	70	70	72	72	72	72	73	73
Transport / operating weight	kg	470	460	510	490	560	550	570	560

LEW C		141	142	144	161	162	164	181	182	184
Power supply	V - ph - Hz	400 - 3N - 50Hz								
Cooling capacity (1)	kW	157	157	156	174	174	175	204	204	198
Power input (1)	kW	27,9	27,9	28,8	32,0	32,0	31,9	37,9	37,9	36,3
EER (1)		5,43	5,43	5,25	5,25	5,25	5,32	5,20	5,21	5,27
Water flow rate user side (1)	l/h	27009	27014	26953	30048	30067	30274	35104	35161	34189
Pressure drop, user side (1)	kPa	46	46	46	51	51	52	53	54	51
Water flow rate source side (1)	l/h	10573	10574	10604	11818	11826	11885	13833	13851	13442
Pressure drop, source side (1)	kPa	19	19	19	23	23	23	30	31	30
Maximum current absorption	A	91	91	92	102	102	100	116	116	122
Startup current	A	289	289	197	298	298	211	361	361	250
Startup current with softstarter kit	A	224	224	140	233	233	152	278	278	184
No. of compressors / circuits		2/2	2/1	4/2	2/2	2/1	4/2	2/2	2/1	4/2
LEW-CS: Sound power level (2)	dB(A)	77	77	80	77	77	80	78	78	81
LEW-CL: Sound power level (2)	dB(A)	73	73	76	73	73	76	74	74	77
Transport / operating weight	kg	630	615	720	670	650	740	710	690	850

(1) Water temperature - user side 12/7°C, water temperature - source side 15/30 °C (14511:2011)
(2) Sound power level measured according to UNI EN ISO 9614

Rated technical data of LEW C water chillers

LEW C		204	214	243	244	283	284	314	344
Power supply	V - ph - Hz	400 - 3N - 50Hz							
Cooling capacity (1)	kW	218	234	267	277	307	310	341	367
Power input (1)	kW	39,3	42,6	47,7	48,0	56,4	56,2	64,8	70,3
EER (1)		5,38	5,32	5,43	5,60	5,31	5,38	5,13	5,08
Water flow rate user side (1)	l/h	37653	40422	46007	47854	52868	53428	58841	63334
Pressure drop, user side (1)	kPa	51	57	50	55	39	40	47	53
Water flow rate source side (1)	l/h	14763	15871	18025	18657	20795	20975	23255	25061
Pressure drop, source side (1)	kPa	29	33	21	23	28	28	34	35
Maximum current absorption	A	132	142	153	159	174	182	204	218
Startup current	A	321	328	336	301	401	355	374	437
Startup current with softstarter kit	A	256	263	271	239	318	290	309	354
No. of compressors / circuits		4/2	4/2	3/1	4/2	3/1	4/2	4/2	4/2
LEW-CS: Sound power level (2)	dB(A)	81	81	81	82	81	82	82	83
LEW-CL: Sound power level (2)	dB(A)	77	77	77	78	77	78	78	79
Transport / operating weight	kg	870	920	950	980	1050	1090	1250	1290

LEW C		374	424	484	485	535	576	636
Power supply	V - ph - Hz	400 - 3N - 50Hz						
Cooling capacity (1)	kW	401	454	519	505	572	610	678
Power input (1)	kW	75,3	82,8	92,5	151	167	183	203
EER (1)		5,17	5,32	5,44	5,24	5,33	5,21	5,18
Water flow rate user side (1)	l/h	69045	78322	89412	87003	98690	105153	116963
Pressure drop, user side (1)	kPa	52	56	53	53	55	53	65
Water flow rate source side (1)	l/h	27251	30767	35016	34283	38775	41465	46126
Pressure drop, source side (1)	kPa	32	33	39	23	28	32	39
Maximum current absorption	A	232	281	302	290	256	348	424
Startup current	A	442	490	525	552	551	610	621
Startup current with softstarter kit	A	359	420	454	406	495	464	565
No. of compressors / circuits		4/2	4/2	4/2	5/2	5/2	6/2	6/2
LEW-CS: Sound power level (2)	dB(A)	83	83	86	84	84	85	85
LEW-CL: Sound power level (2)	dB(A)	79	79	82	80	80	81	81
Transport / operating weight	kg	1330	1410	1510	1950	1950	2100	2100

(1) Water temperature - user side 12 / 7°C, water temperature - dissipation side 15 / 30 °C (14511:2011)
(2) Sound power level measured according to UNI EN ISO 9614

Rated technical data of LEW W non reversible heat pumps

LEW W		041	042	051	052	061	062	071	072
Power supply	V - ph - Hz	400 - 3N - 50							
Heating capacity (1)	kW	55,5	54,3	65,3	65,4	74,0	74,1	84,5	84,6
Power input (1)	kW	13,6	13,0	16,4	16,3	17,9	18,0	20,8	20,8
COP (1)		4,07	4,18	3,99	4,00	4,12	4,13	4,07	4,08
Water flow rate user side (1)	l/h	9578	9376	11270	11282	12791	12803	14596	14611
Pressure drop, user side (1)	kPa	42	40	56	56	42	42	55	55
Water flow rate source side (1)	l/h	12314	12146	14444	14467	16521	16540	18775	18806
Pressure drop, source side (1)	kPa	67	66	90	90	90	90	88	88
Maximum current absorption	A	30	30	37	37	40	40	46	46
Startup current	A	111	111	156	156	157	157	164	164
Startup current with softstarter kit	A	73	73	83	83	102	102	107	107
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-WS: Sound power level (2)	dB(A)	72	72	72	72	73	73	73	73
LEW-WL: Sound power level (2)	dB(A)	68	68	68	68	69	69	69	69
Transport / operating weight	kg	415	385	475	445	502	467	512	482

LEW W		081	082	091	092	111	112	131	132
Power supply	V - ph - Hz	400 - 3N - 50							
Heating capacity (1)	kW	96,1	96,1	108	108	129	129	148	148
Power input (1)	kW	22,6	22,6	25,9	25,9	30,1	30,1	35,2	35,2
COP (1)		4,25	4,25	4,15	4,14	4,28	4,28	4,20	4,19
Water flow rate user side (1)	l/h	16607	16614	18576	18580	22295	22307	25511	25508
Pressure drop, user side (1)	kPa	42	42	52	52	43	43	55	55
Water flow rate source side (1)	l/h	21552	21561	23972	23970	28958	28986	33026	33009
Pressure drop, source side (1)	kPa	68	68	85	85	74	74	90	90
Maximum current absorption	A	50	50	61	61	70	71	79	79
Startup current	A	176	176	203	203	238	275	244	244
Startup current with softstarter kit	A	117	117	137	137	176	210	182	182
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-WS: Sound power level (2)	dB(A)	74	74	76	76	76	76	77	77
LEW-WL: Sound power level (2)	dB(A)	70	70	72	72	72	72	73	73
Transport / operating weight	kg	530	510	575	540	645	605	660	625

LEW W		141	142	144	161	162	164	181	182	184
Power supply	V - ph - Hz	400 - 3N - 50								
Heating capacity (1)	kW	170	170	171	190	190	191	225	225	218
Power input (1)	kW	40,0	40,0	40,7	45,3	45,3	45,6	52,4	52,4	50,7
COP (1)		4,24	4,23	4,19	4,19	4,19	4,19	4,29	4,29	4,31
Water flow rate user side (1)	l/h	29344	29316	29540	32830	32846	33016	38942	38889	37800
Pressure drop, user side (1)	kPa	51	51	52	57	57	58	51	50	48
Water flow rate source side (1)	l/h	38059	38001	38191	42442	42474	42688	50616	50535	49162
Pressure drop, source side (1)	kPa	86	86	86	94	94	94	84	84	81
Maximum current absorption	A	91	91	92	102	102	100	116	116	122
Startup current	A	289	289	197	298	298	211	361	361	250
Startup current with softstarter kit	A	224	224	140	233	233	152	278	278	184
No. of compressors / circuits		2/2	2/1	4/2	2/2	2/1	4/2	2/2	2/1	4/2
LEW-WS: Sound power level (2)	dB(A)	77	77	80	77	77	80	78	78	81
LEW-WL: Sound power level (2)	dB(A)	73	73	76	73	73	76	74	74	77
Transport / operating weight	kg	720	685	830	775	740	865	825	780	985

(1) Water temperature - user side 40 / 45°C, water temperature - dissipation side 10 / 7 °C (14511:2011)
(2) Sound power level measured according to UNI EN ISO 9614

Rated technical data of LEW W non reversible heat pumps

LEW W		204	214	243	244	283	284	314	344
Power supply	V - ph - Hz	400 - 3N - 50							
Heating capacity (1)	kW	237	258	290	299	334	339	376	409
Power input (1)	kW	55,9	60,1	66,9	67,9	77,9	78,7	89,8	97,1
COP (1)		4,24	4,30	4,34	4,41	4,29	4,30	4,19	4,21
Water flow rate user side (1)	l/h	40982	44703	50201	51848	57875	58631	65061	70840
Pressure drop, user side (1)	kPa	57	54	57	33	41	43	53	51
Water flow rate source side (1)	l/h	53122	58132	65483	67620	75020	76063	83902	91484
Pressure drop, source side (1)	kPa	92	88	93	60	71	73	88	85
Maximum current absorption	A	132	142	153	159	174	182	204	218
Startup current	A	321	328	336	301	401	355	374	437
Startup current with softstarter kit	A	256	263	271	239	318	290	309	354
No. of compressors / circuits		4/2	4/2	3/1	4/2	3/1	4/2	4/2	4/2
LEW-WS: Sound power level (2)	dB(A)	81	81	81	82	81	82	82	83
LEW-WL: Sound power level (2)	dB(A)	77	77	77	78	77	78	78	79
Transport / operating weight	kg	1110	1065	1120	1270	1180	1340	1420	1470

LEW W		374	424	484	485	535	576	636
Power supply	V - ph - Hz	400 - 3N - 50						
Heating capacity (1)	kW	444	505	569	560	627	670	749
Power input (1)	kW	105	120	132	130	152	157	148
COP (1)		4,25	4,20	4,29	4,30	4,12	4,26	4,07
Water flow rate user side (1)	l/h	76847	87416	98452	96906	108514	115860	129453
Pressure drop, user side (1)	kPa	51	52	54	50	61	60	73
Water flow rate source side (1)	l/h	99445	112768	127813	125808	139402	150278	166033
Pressure drop, source side (1)	kPa	84	85	86	85	102	101	121
Maximum current absorption	A	232	281	302	290	353	348	424
Startup current	A	442	490	525	552	551	610	621
Startup current with softstarter kit	A	359	420	454	406	495	464	565
No. of compressors / circuits		4/2	4/2	4/2	5/2	5/2	6/2	6/2
LEW-WS: Sound power level (2)	dB(A)	83	83	86	84	84	85	85
LEW-WL: Sound power level (2)	dB(A)	79	79	82	80	80	81	81
Transport / operating weight	kg	1540	1650	1710	2150	2150	2300	2300

(1) Water temperature - user side 40 / 45°C, water temperature - dissipation side 10 / 7 °C (14511:2011)
(2) Sound power level measured according to UNI EN ISO 9614

Rated technical data of LEW H reversible heat pumps

LEW H		041	042	051	052	061	062	071	072
Power supply	V - ph - Hz	400 - 3N - 50Hz							
Cooling capacity (1) (E)	kW	48,4	47,6	56,4	56,3	65,0	64,9	73,5	73,4
Power input (1) (E)	kW	11,2	10,5	13,5	13,5	14,7	14,7	17,0	17,0
EER (1) (E)		4,32	4,52	4,17	4,16	4,42	4,42	4,32	4,32
ESEER (E)		4,99	5,37	4,79	5,14	5,10	5,43	4,97	5,34
Eurovent efficiency class		C	C	D	D	C	C	C	C
Water flow rate user side (1)	l/h	8364	8219	9743	9724	11236	11212	12695	12685
Pressure drop, user side (1) (E)	kPa	34	33	44	44	45	45	43	43
Water flow rate source side (1)	l/h	10171	9919	11907	11888	13610	13582	15433	15422
Pressure drop, source side (1) (E)	kPa	46	44	62	61	47	47	61	61
Heating capacity (2) (E)	kW	55,5	54,3	65,3	65,4	74,0	74,1	84,5	84,6
Power input (2) (E)	kW	13,6	13,0	16,4	16,3	17,9	18,0	20,8	20,8
COP (2) (E)		4,07	4,18	3,99	4,00	4,12	4,13	4,07	4,08
Eurovent efficiency class		C	B	C	C	C	C	C	C
Water flow rate user side (2)	l/h	9578	9376	11270	11282	12791	12803	14596	14611
Pressure drop, user side (2) (E)	kPa	42	40	56	56	42	42	55	55
Water flow rate source side (2)	l/h	12314	12146	14444	14467	16521	16540	18775	18806
Pressure drop, source side (2) (E)	kPa	67	66	90	90	90	90	88	88
Maximum current absorption	A	30	30	37	37	40	40	46	46
Startup current	A	111	111	156	156	157	157	164	164
Startup current with softstarter kit	A	73	73	83	83	102	102	107	107
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-HS: Sound power level (3) (E)	dB(A)	72	72	72	72	73	73	73	73
LEW-HL: Sound power level (3) (E)	dB(A)	68	68	68	68	69	69	69	69
Transport / operating weight	kg	415	385	475	445	502	467	512	482

LEW H		081	082	091	092	111	112	131	132
Power supply	V - ph - Hz	400 - 3N - 50Hz							
Cooling capacity (1) (E)	kW	84,7	84,6	93,9	94,0	114	114	130	130
Power input (1) (E)	kW	18,4	18,4	21,1	21,1	24,3	24,3	28,3	28,3
EER (1) (E)		4,60	4,60	4,45	4,45	4,68	4,68	4,58	4,59
ESEER (E)		5,24	5,56	5,17	5,56	5,38	5,76	5,34	5,72
Eurovent efficiency class		C	C	C	C	B	B	C	C
Water flow rate user side (1)	l/h	14621	14604	16214	16228	19647	19634	22354	22375
Pressure drop, user side (1) (E)	kPa	34	34	42	42	37	37	45	45
Water flow rate source side (1)	l/h	17616	17601	19630	19645	23617	23607	26943	26965
Pressure drop, source side (1) (E)	kPa	47	47	58	58	48	48	61	61
Heating capacity (2) (E)	kW	96,1	96,1	108	108	129	129	148	148
Power input (2) (E)	kW	22,6	22,6	25,9	25,9	30,1	30,1	35,2	35,2
COP (2) (E)		4,25	4,25	4,15	4,14	4,28	4,28	4,20	4,19
Eurovent efficiency class		B	B	B	C	B	B	B	B
Water flow rate user side (2)	l/h	16607	16614	18576	18580	22295	22307	25511	25508
Pressure drop, user side (2) (E)	kPa	42	42	52	52	43	43	55	55
Water flow rate source side (2)	l/h	21552	21561	23972	23970	28958	28986	33026	33009
Pressure drop, source side (2) (E)	kPa	68	68	85	85	74	74	90	90
Maximum current absorption	A	50	50	61	61	70	71	79	79
Startup current	A	176	176	203	203	238	275	244	244
Startup current with softstarter kit	A	117	117	137	137	176	210	182	182
No. of compressors / circuits		2/2	2/1	2/2	2/1	2/2	2/1	2/2	2/1
LEW-HS: Sound power level (3) (E)	dB(A)	74	74	76	76	76	76	77	77
LEW-HL: Sound power level (3) (E)	dB(A)	70	70	72	72	72	72	73	73
Transport / operating weight	kg	530	510	575	540	645	605	660	625

(1) Water temperature - user side 12 / 7°C, water temperature - dissipation side 30 / 35 °C (14511:2011)
(2) Water temperature - user side 40 / 45°C, water temperature - dissipation side 10 / 7 °C (14511:2011)
(3) Sound power level measured according to UNI EN ISO 9614
(E) EUROVENT certified data

Rated technical data of LEW H reversible heat pumps

LEW H		141	142	144	161	162	164	181	182	184
Power supply	V - ph - Hz	400 - 3N - 50Hz								
Cooling capacity (1) (E)	kW	149	149	149	166	167	167	199	199	193
Power input (1) (E)	kW	32,5	32,5	33,4	37,0	37,0	36,9	42,9	42,9	41,2
EER (1) (E)		4,58	4,59	4,46	4,49	4,50	4,53	4,63	4,63	4,68
ESEER (E)		5,25	5,49	5,42	5,16	5,49	5,55	5,19	5,59	5,63
Eurovent efficiency class		C	C	C	C	C	C	C	C	B
Water flow rate user side (1)	l/h	25693	25727	25692	28683	28730	28873	34252	34226	33248
Pressure drop, user side (1) (E)	kPa	42	42	42	47	47	47	41	41	40
Water flow rate source side (1)	l/h	30993	31025	31136	34717	34767	34889	41289	41261	40016
Pressure drop, source side (1) (E)	kPa	57	57	58	63	63	64	56	56	54
Heating capacity (2) (E)	kW	170	170	171	190	190	191	225	225	218
Power input (2) (E)	kW	40,0	40,0	40,7	45,3	45,3	45,6	52,4	52,4	50,7
COP (2) (E)		4,24	4,23	4,19	4,19	4,19	4,19	4,29	4,29	4,31
Eurovent efficiency class		B	B	B	B	B	B	B	B	B
Water flow rate user side (2)	l/h	29344	29316	29540	32830	32846	33016	38942	38889	37800
Pressure drop, user side (2) (E)	kPa	51	51	52	57	57	58	51	50	48
Water flow rate source side (2)	l/h	38059	38001	38191	42442	42474	42688	50616	50535	49162
Pressure drop, source side (2) (E)	kPa	86	86	86	94	94	94	84	84	81
Maximum current absorption	A	91	91	92	102	102	100	116	116	122
Startup current	A	289	289	197	298	298	211	361	361	250
Startup current with softstarter kit	A	224	224	140	233	233	152	278	278	184
No. of compressors / circuits		2/2	2/1	4/2	2/2	2/1	4/2	2/2	2/1	4/2
LEW-HS: Sound power level (3) (E)	dB(A)	77	77	80	77	77	80	78	78	81
LEW-HL: Sound power level (3) (E)	dB(A)	73	73	76	73	73	76	74	74	77
Transport / operating weight	kg	720	685	830	775	740	865	825	780	985

LEW H		204	214	243	244	283	284	314	344
Power supply	V - ph - Hz	400 - 3N - 50Hz							
Cooling capacity (1) (E)	kW	209	228	256	266	294	298	328	359
Power input (1) (E)	kW	45,1	48,4	54,5	54,4	63,8	63,7	73,3	79,3
EER (1) (E)		4,63	4,71	4,70	4,88	4,62	4,67	4,47	4,52
ESEER (E)		5,74	5,73	5,66	5,89	5,64	5,52	5,47	5,45
Eurovent efficiency class		C	B	B	B	C	B	C	C
Water flow rate user side (1)	l/h	35970	39338	44169	45744	50710	51237	56518	61829
Pressure drop, user side (1) (E)	kPa	45	43	46	30	35	36	43	42
Water flow rate source side (1)	l/h	43340	47280	53105	54802	61268	61798	68600	74910
Pressure drop, source side (1) (E)	kPa	63	60	63	37	46	48	58	56
Heating capacity (2) (E)	kW	237	258	290	299	334	339	376	409
Power input (2) (E)	kW	55,9	60,1	66,9	67,9	77,9	78,7	89,8	97,1
COP (2) (E)		4,24	4,30	4,34	4,41	4,29	4,30	4,19	4,21
Eurovent efficiency class		B	B	B	B	B	B	B	B
Water flow rate user side (2)	l/h	40982	44703	50201	51848	57875	58631	65061	70840
Pressure drop, user side (2) (E)	kPa	57	54	57	33	41	43	53	51
Water flow rate source side (2)	l/h	53122	58132	65483	67620	75020	76063	83902	91484
Pressure drop, source side (2) (E)	kPa	92	88	93	60	71	73	88	85
Maximum current absorption	A	132	142	153	159	174	182	204	218
Startup current	A	321	328	336	301	401	355	374	437
Startup current with softstarter kit	A	256	263	271	239	318	290	309	354
No. of compressors / circuits		4/2	4/2	3/1	4/2	3/1	4/2	4/2	4/2
LEW-HS: Sound power level (3) (E)	dB(A)	81	81	81	82	81	82	82	83
LEW-HL: Sound power level (3) (E)	dB(A)	77	77	77	78	77	78	78	79
Transport / operating weight	kg	1110	1065	1120	1270	1180	1340	1420	1470

(1) Water temperature - user side 12 / 7°C, water temperature - dissipation side 30 / 35 °C (14511:2011)
(2) Water temperature - user side 40 / 45°C, water temperature - dissipation side 10 / 7 °C (14511:2011)
(3) Sound power level measured according to UNI EN ISO 9614
(E) EUROVENT certified data

Rated technical data of LEW H reversible heat pumps

LEW H		374	424	484	485	535	576	636
Power supply	V - ph - Hz	400 - 3N - 50Hz						
Cooling capacity (1) (E)	kW	390	445	505	492	548	588	653
Power input (1) (E)	kW	85,4	95,0	106	106	120	129	145
EER (1) (E)		4,56	4,68	4,77	4,63	4,57	4,57	4,50
ESEER (E)		5,51	5,74	5,83	5,88	5,83	5,92	5,82
Eurovent efficiency class		C	B	B	C	C	C	C
Water flow rate user side (1)	l/h	67117	76633	86981	84765	94418	101358	112593
Pressure drop, user side (1) (E)	kPa	41	42	43	42	51	50	60
Water flow rate source side (1)	l/h	81217	92312	104466	102345	114116	122524	136309
Pressure drop, source side (1) (E)	kPa	56	58	60	55	67	66	80
Heating capacity (2) (E)	kW	444	505	569	560	627	670	749
Power input (2) (E)	kW	105	120	132	130	152	157	184
COP (2) (E)		4,25	4,20	4,29	4,30	4,12	4,26	4,07
Eurovent efficiency class		B	B	B	B	C	B	C
Water flow rate user side (2)	l/h	76847	87416	98452	96906	108514	115860	129453
Pressure drop, user side (2) (E)	kPa	51	52	54	50	61	60	73
Water flow rate source side (2)	l/h	99445	112768	127813	125808	139402	150278	166033
Pressure drop, source side (2) (E)	kPa	84	85	86	85	102	101	121
Maximum current absorption	A	232	281	302	290	353	348	424
Startup current	A	442	490	525	552	551	610	621
Startup current with softstarter kit	A	359	420	454	406	495	464	565
No. of compressors / circuits		4/2	4/2	4/2	5/2	5/2	6/2	6/2
LEW-HS: Sound power level (3) (E)	dB(A)	83	83	86	84	84	85	85
LEW-HL: Sound power level (3) (E)	dB(A)	79	79	82	80	80	81	81
Transport / operating weight	kg	1540	1650	1710	2150	2150	2300	2300

(1) Water temperature - user side 12 / 7°C, water temperature - dissipation side 30 / 35 °C (14511:2011)
(2) Water temperature - user side 40 / 45°C, water temperature - dissipation side 10 / 7 °C (14511:2011)
(3) Sound power level measured according to UNI EN ISO 9614
(E) EUROVENT certified data

Dimensional drawings

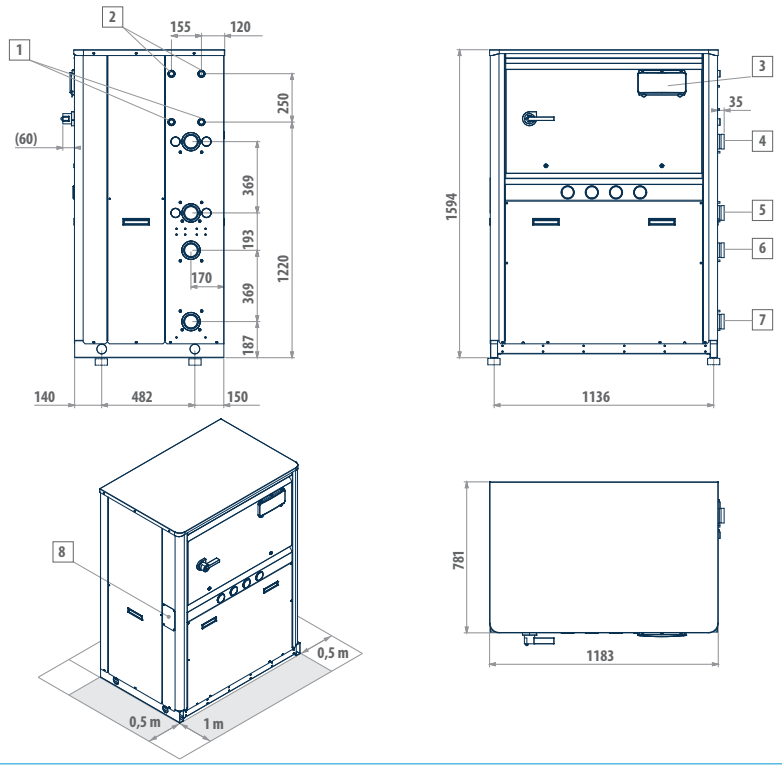
LEW 041 - 092

C - D - H VERSIONS - LEGEND

1	Recovery side - inlet (M 1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	Source side - outlet on C - D (Victaulic 2 ½")
	Source side - inlet on H (Victaulic 2 ½")
5	Source side - inlet on C - D (Victaulic 2 ½")
	Source side - outlet on H (Victaulic 2 ½")
6	User side- inlet on C- D (Victaulic 2 ½")
	User side - outlet on H (Victaulic 2 ½")
7	User side - outlet on C - D (Victaulic 2 ½")
	User side - inlet on H (Victaulic 2 ½")
8	Power supply input

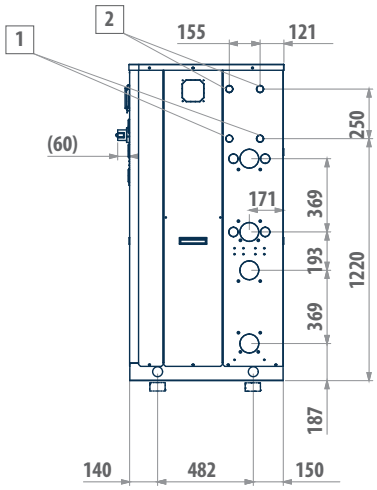
W VERSIONS - LEGEND

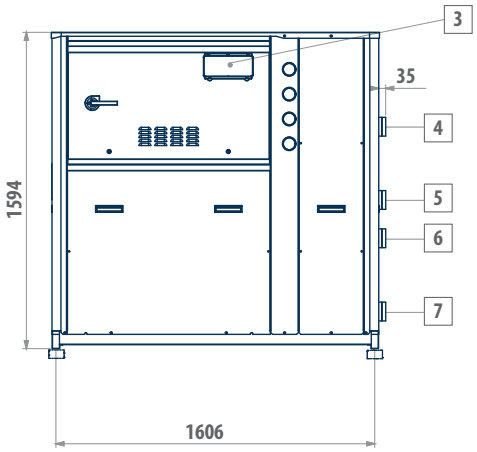
1	Recovery side - inlet (M1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	User side - outlet (Victaulic 2½")
5	User side - inlet (Victaulic 2½")
6	Source side - inlet (Victaulic 2½")
7	Source side - outlet (Victaulic 2½")
8	Power supply input

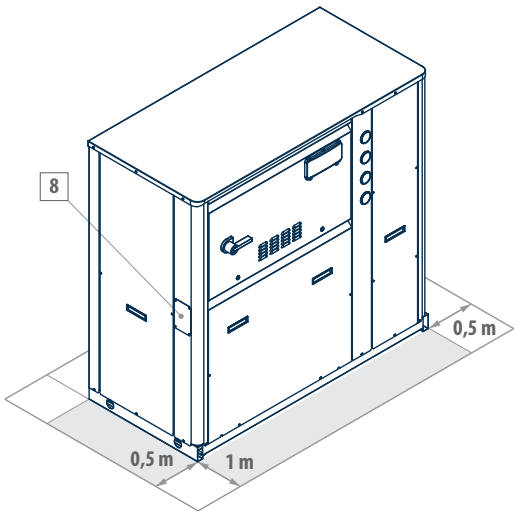


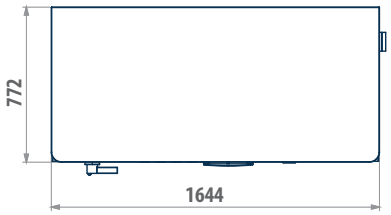
Dimensional drawings

LEW 111 - 182









C - D - H VERSIONS - LEGEND

1	Recovery side - inlet (M 1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	Source side - outlet on C - D (Victaulic 2 ½")
	Source side - inlet on H (Victaulic 2 ½")
5	Source side - inlet on C - D (Victaulic 2 ½")
	Source side - outlet on H (Victaulic 2 ½")
6	User side- inlet on C- D (Victaulic 2 ½")
	User side - outlet on H (Victaulic 2 ½")
7	User side - outlet on C - D (Victaulic 2 ½")
	User side - inlet on H (Victaulic 2 ½")
8	Power supply input

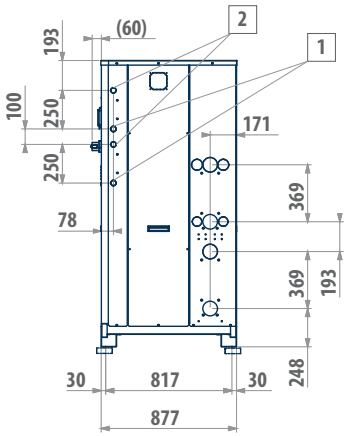
W VERSIONS - LEGEND

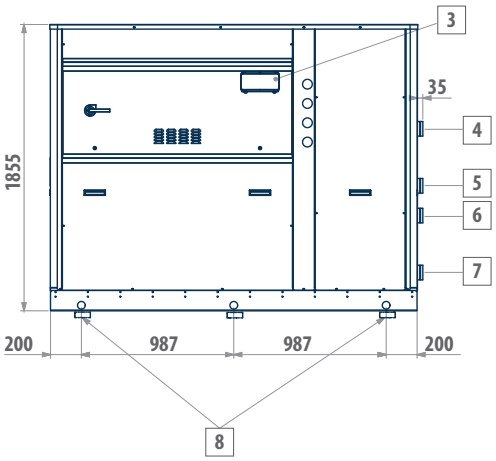
1	Recovery side - inlet (M1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	User side - outlet (Victaulic 2½")
5	User side - inlet (Victaulic 2½")
6	Source side - inlet (Victaulic 2½")
7	Source side - outlet (Victaulic 2½")
8	Power supply input

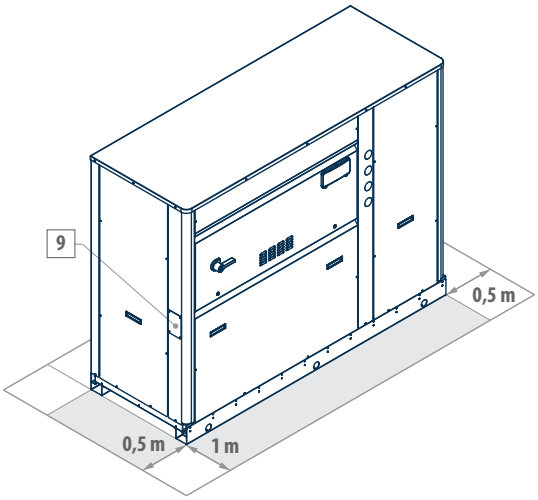
Model	Version
LEW 111	C - D - H - W
LEW 112	C - D - H - W
LEW 131	C - D - H - W
LEW 132	C - D - H - W
LEW 141	C - D - H - W
LEW 142	C - D - H - W
LEW 161	C - D - H - W
LEW 162	C - D - H - W
LEW 181	C - D - H - W
LEW 182	C - D - H - W

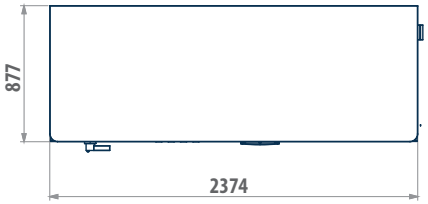
Dimensional drawings

LEW 144 - 244









Model	Version
LEW 144	C - D - H - W
LEW 164	C - D - H - W
LEW 184	C - D - H - W
LEW 204	C - D - H - W
LEW 214	C - D - H - W
LEW 243	C - W
LEW 244	C - W

C - D - H VERSIONS - LEGEND

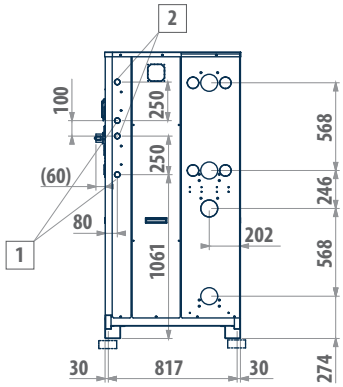
1	Recovery side - inlet (M 1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	Source side - outlet on C - D (Victaulic 2 ½")
	Source side - inlet on H (Victaulic 2 ½")
5	Source side - inlet on C - D (Victaulic 2 ½")
	Source side - outlet on H (Victaulic 2 ½")
6	User side- inlet on C- D (Victaulic 2 ½")
	User side - outlet on H (Victaulic 2 ½")
7	User side - outlet on C - D (Victaulic 2 ½")
	User side - inlet on H (Victaulic 2 ½")
8	Power supply input

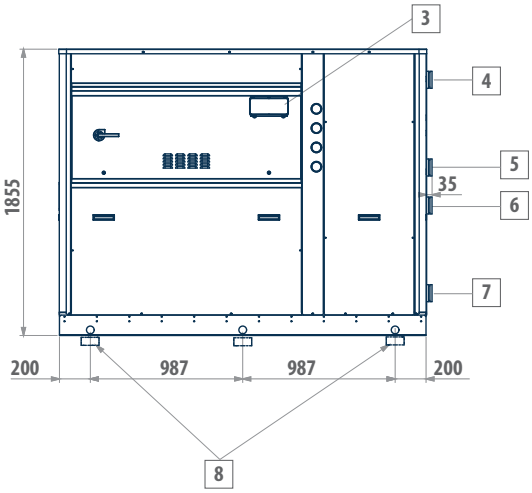
W VERSIONS - LEGEND

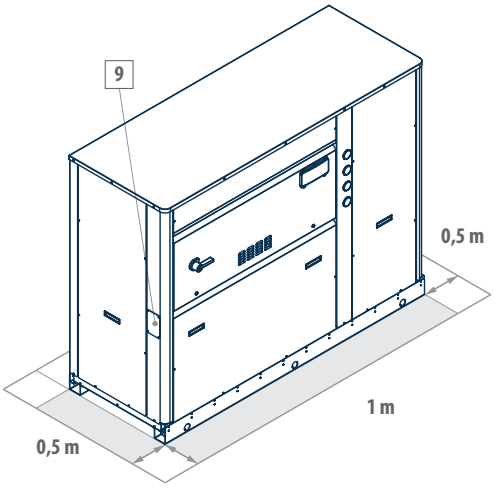
1	Recovery side - inlet (M1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	User side - outlet (Victaulic 2½")
5	User side - inlet (Victaulic 2½")
6	Source side - inlet (Victaulic 2½")
7	Source side - outlet (Victaulic 2½")
8	Power supply input

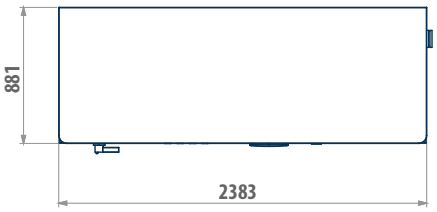
Dimensional drawings

LEW 243 - 484









Model	Version
LEW 243	D - H - W
LEW 244	D - H - W
LEW 283	D - H - W
LEW 284	D - H - W
LEW 314	D - H - W
LEW 344	D - H - W
LEW 374	D - H - W
LEW 424	D - H - W
LEW 484	D - H - W

D - H VERSIONS - LEGEND

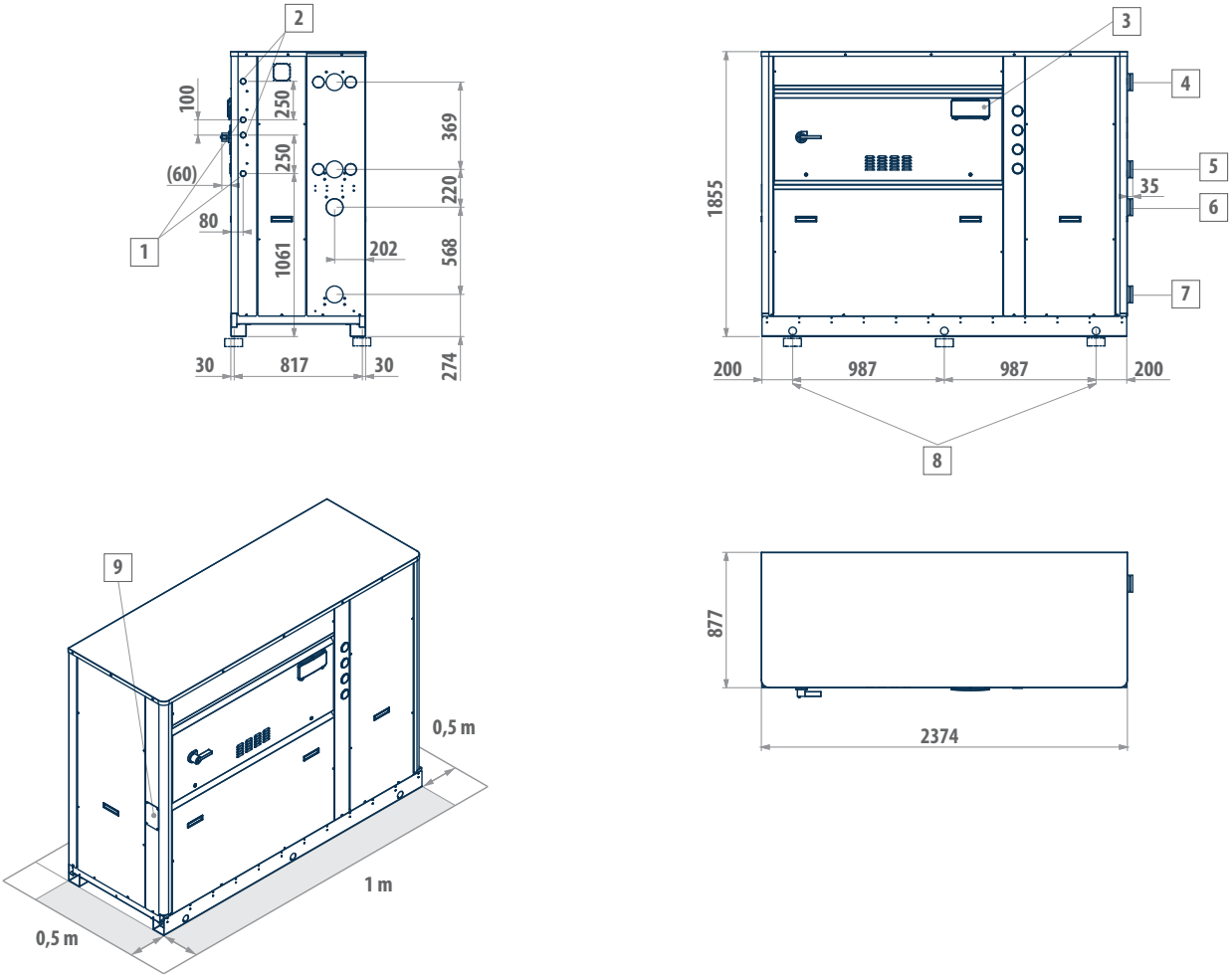
1	Recovery side - inlet (M 1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	Source side - outlet on D (Victaulic 3")
	Source side - inlet on H (Victaulic 3")
5	Source side - inlet on D (Victaulic 3")
	Source side - outlet on H (Victaulic 3")
6	User side- inlet on D (Victaulic 3")
	User side - outlet on H (Victaulic 3")
7	User side - outlet on D (Victaulic 3")
	User side - inlet on H (Victaulic 3")
8	Power supply input

W VERSIONS - LEGEND

1	Recovery side - inlet (M1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	User side - outlet (Victaulic 3")
5	User side - inlet (Victaulic 3")
6	Source side - inlet (Victaulic 3")
7	Source side - outlet (Victaulic 3")
8	Power supply input

Dimensional drawings

LEW 283 - 484



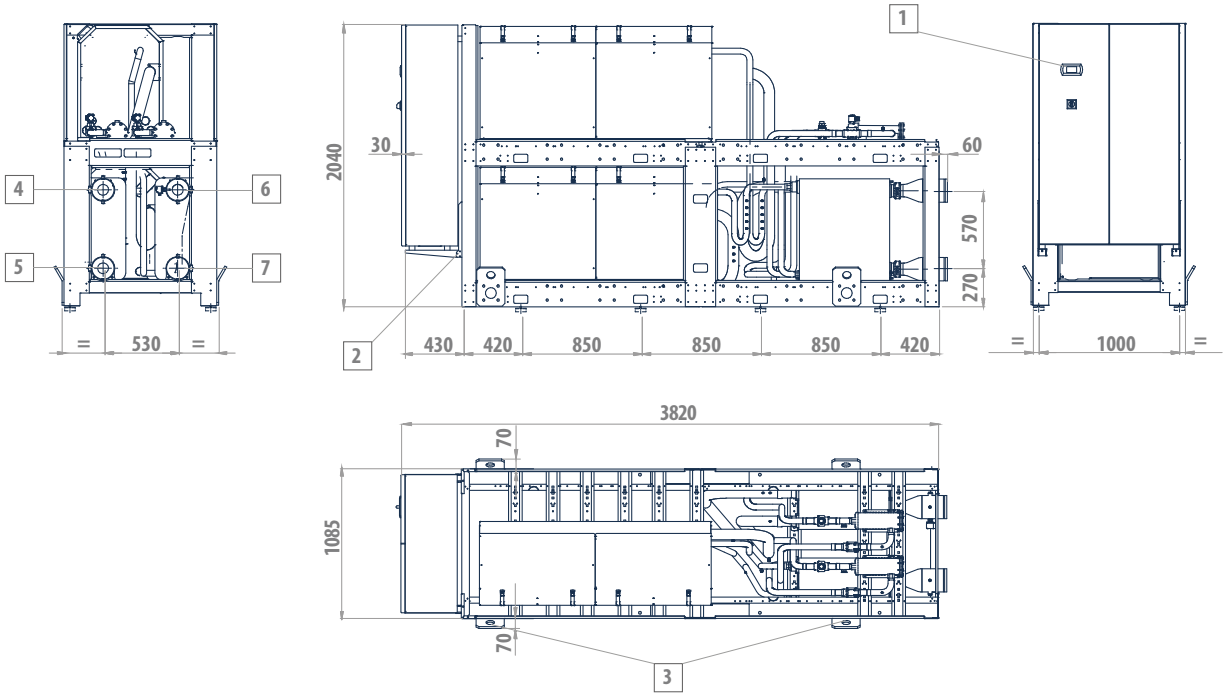
Model	Version
LEW 283	C
LEW 284	C
LEW 314	C
LEW 344	C
LEW 374	C
LEW 424	C
LEW 484	C

C VERSIONS - LEGEND

1	Recovery side - inlet (M 1" gas)
2	Recovery side - outlet (M 1" gas)
3	User interface
4	Source side - outlet (Victaulic 2½")
5	Source side - inlet (Victaulic 2½")
6	User side - inlet (Victaulic 3")
7	User side - outlet (Victaulic 3")
8	Fastening points
9	Power supply input

Dimensional drawings

LEW 485 - 636



Model	Version
LEW 485	C - D - H - W
LEW 535	C - D - H - W
LEW 576	C - D - H - W
LEW 636	C - D - H - W

W VERSIONS - LEGEND

1	User interface
2	Power supply input
3	Fastening points
4	Source side - inlet (Victaulic 6”)
5	Source side - outlet (Victaulic 6”)
6	User side - outlet (Victaulic 6”)
7	User side - inlet (Victaulic 5”)

C - D - H VERSIONS - LEGEND

1	User interface
2	Power supply input
3	Fastening points
4	Source side - outlet on C-D(Victaulic 6”)
	Source side - inlet on H(Victaulic 6”)
5	Source side - inlet on C-D (Victaulic 6”)
	Source side - outlet on H (Victaulic 6”)
6	User side - inlet on C - D (Victaulic 6”)
	User side - outlet on H (Victaulic 6”)
7	User side - outlet on C - D (Victaulic 6”)
	User side - inlet on H (Victaulic 6”)