

Inverter driven ceiling mounted monoblock

Technical Data

LMCEY



LMCEY1A13XM01
LMCEY2A9AYE01
LMCEY2A25AYE01
LMCEY1W12XM01
LMCEY2W9AYE01
LMCEY2W25AYE01

TABLE OF CONTENTS

LMCEY

1	Features	4
	LMCEY	4
2	Specifications	5
3	Electrical data	6
4	Options	7
5	Capacity tables	8
	Cooling/Heating Capacity Tables	8
6	Dimensional drawings	10
7	Centre of gravity	12
8	Piping diagrams	13
9	Wiring diagrams	15
	Wiring Diagrams - Three Phase	15
10	Installation	19
	Installation Method	19
11	Operation range	20

1 Features

1 - 1 LMCEY

- › Green and future proof
- › High efficiency, low noise and cost saving
- › Easy installation and easy access for maintenance
- › Innovative remote monitoring system with dedicated App and Cloud services
- › Cloud services
- › Easy retrofitable
- › 3 years Warranty



Inverter



Reciprocating
compressor



Auto-restart



Self diagnosis

2 Specifications

2 - 1 Specifications

Technical specifications					LMCEY1A13AVM01	LMCEY2A19AYE01	LMCEY2A25AYE01	LMCEY1W12AVM01	LMCEY2W19AYE01	LMCEY2W25AYE01
Refrigerating capacity	Low temperature	R-290	Nom	kW	0.72 (1)	1.14 (1)	1.42 (1)	0.69 (7)	1.11 (7)	1.47 (7)
	Medium temperature	R-290	Nom	kW	1.26 (2)	1.98 (2)	2.57 (2)	1.23 (8)	1.96 (8)	2.60 (8)
Power input	Low temperature	R-290	Nom	kW	0.74 (1)	1.23 (1)	1.53 (1)	0.75 (7)	1.05 (7)	1.38 (7)
	Medium temperature	R-290	Nom	kW	1.04 (2)	1.64 (2)	2.13 (1)	0.92 (8)	1.38 (8)	1.84 (8)
Dimensions	Unit	Height	mm		578	659		578	659	
		Width	mm		700	1,100		700	1,100	
		Depth	mm		742	1,002		742	1,000	
	Packed unit	Height	mm		754	881		740	871	
		Width	mm		882	1,300		882	1,300	
		Depth	mm		780	1,061		780	1,061	
Weight	Unit		kg		60	101		60	101	
	Packed unit		kg		81	154		81	155	
Compressor	Quantity				1	2		1	2	
	Type				Hermetic reciprocating inverter driven					
Condenser	Air flow		m ³ /h		532 (3)	1,030 (3)		-		
Defrost					Hot gas					
Evaporator	Air flow		m ³ /h		336 (3)	865 (3)		336 (3)	865 (3)	
	Air throw		m		1.3 (4)	1.7 (4)		1.3 (4)	1.7 (4)	
Operation range	Cold room temperature	Min.	°C		-25					
		Max.	°C		10					
	Ambient temperature	Min.	°C		5					
		Max.	°C		45					
Refrigerant	Type				R-290					
	GWP				3.0					
	Charge		kg		0.150	0.130 (5)		0.150	0.130 (5)	
PED	Category				Art4.3					
Characteristics of the hole where to accommodate the units (through the wall installation)	Height		mm		337	458		337	458	
	Width		mm		550	750		550	750	
Operating sound pressure at condenser	Max.		dBA		38.6 (6)	44.0 (6)		39.0 (6)	41.0 (6)	
N° of circuits					1	2		1	2	
Electrical specifications					LMCEY1A13AVM01	LMCEY2A19AYE01	LMCEY2A25AYE01	LMCEY1W12AVM01	LMCEY2W19AYE01	LMCEY2W25AYE01
Power supply	Voltage		V		230 +/-10%	400 +/-10%		230 +/-10%	400 +/-10%	
	Phase				1N~	3N~		1N~	3N~	
	Frequency		Hz		50/60					
	Maximum fuse amps (MFA)		A		15	25		15	20	
Max current			A		7.6	11.3	14.6	7.6	11.0	14.2

(1)Rated condition according to EN 17432 (indoor temperature of -20°C, outdoor temperature of 32°C). |

(2)Rated condition according to EN 17432 (indoor temperature of 0°C, outdoor temperature of 32°C). |

(3)According to EN ISO 5801 |

(4)According to CECOMAF GT 6-001 (final velocity = 0,25 m/s) |

(5)Refrigerant charge for each circuit |

(6)According to UNI EN ISO 3746 (measured at 10m)

(7)Rated condition according to EN 17432 (indoor temperature of -20°C, water inlet temperature of 30°C, water outlet temperature of 35°C) |

(8)Rated condition according to EN 17432 (indoor temperature of 0°C, water inlet temperature of 30°C, water outlet temperature of 35°C) |

3 Electrical data

3 - 1 Electrical Data

LMCEY

Model name	Units				Power supply			Compressor	OFM		IFM	
	Hz	Volt	Voltage range		MCA	MFA	TOCA	RLA	FLA	W	FLA	W
			Minimum	Maximum								
LMCEY1A13AVM01	50	230	207	253	7.6	15	9.3	5	0.3	26	0.3	26
LMCEY2A19AYE01	50	400	360	440	11.3	25	18.5	7.4	0.6	52	0.6	52
LMCEY2A25AYE01	50	400	360	440	14.6	25	18.5	10	0.6	52	0.6	52
LMCEY1W12AVM01	50	230	207	253	7.6	15	9.3	5	0.3	26	0.3	26
LMCEY2W19AYE01	50	400	360	440	11.0	20	17.9	7.4	0.3	26	0.6	52
LMCEY2W25AYE01	50	400	360	440	14.2	20	17.9	10	0.3	26	0.6	52

Symbols

MCA	: Minimum Circuit Ampere	[A]
TOCA	: Total Overcurrent Ampere	[A]
MFA	: Maximum Fuse Ampere	[A]
RLA	: Rated Load Ampere	[A]
OFM	: Outdoor Fan Motor	
IFM	: Indoor Fan Motor	
W	: Rated Motor Output	[W]
FLA	: Full Load Ampere	[A]

Notes)

- The ·RLA· is based on the following conditions.
 - Outdoor temperature ·45·° C DB
 - Indoor temperature ·10·° C DB
- TOCA· is the total value of each overcurrent set.
- Voltage range

The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
- The maximum allowable voltage that is unbalanced between phases is ·2·%.
- Select the wire size according to the ·MCA· or the ·TOCA·, whichever is higher.
- MFA· is used to select the circuit breaker and the ground fault circuit interruptor.

3D152006

4 Options

4 - 1 Options

LMCEY

ACCESSORY		UNIT					
Description	Material code	LMCEY1A13AVM01	LMCEY2A18AYE01	LMCEY2A25AYE01	LMCEY1W12AVM01	LMCEY2W19AYE01	LMCEY2W26AYE01
Cold room light	1KIT862ACC	●	●	●	●	●	●
Door microswitch	3MCT014ACC	●	●	●	●	●	●
Supervising system for remote monitoring (LAN connection)	3MCB001ACC	●	●	●	●	●	●
Supervising system for remote monitoring (LAN +WI-FI connection)	3MCB002ACC	●	●	●	●	●	●
Condenser booster fan	1KIT884ACC	●	✕	✕	✕	✕	✕
Condenser booster fan	1KIT885ACC	✕	●	●	✕	✕	✕

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

LMCEY1A13AVM01

According to EN17432

Max cooling capacity

Model name	Rated operating frequency [Hz]	External temperature [°C DB]	Cold room temperature [°C]															
			-25		-20		-15		-10		-5		0		5		10	
			Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W
LMCEY1A13AVM01	50 Hz	45	560	705	674	791	788	876	902	961	1016	1047	1138	1132	1244	1217	1358	1303
		40	577	688	696	770	815	851	933	933	1052	1014	1187	1096	1290	1177	1409	1259
		35	594	671	718	749	841	827	965	904	1088	982	1229	1059	1336	1137	1459	1215
		32	604	661	720	737	857	812	984	887	1110	962	1260	1038	1363	1113	1490	1188
		30	611	655	739	728	868	802	996	876	1125	949	1271	1023	1382	1097	1510	1171
		25	628	638	761	707	894	777	1028	847	1161	917	1312	987	1428	1057	1561	1127
		20	645	621	783	687	921	753	1059	819	1197	885	1354	951	1473	1016	1612	1082
		15	662	604	805	666	948	728	1091	790	1233	852	1396	914	1519	976	1662	1038
		10	679	587	826	645	974	703	1122	761	1270	820	1437	878	1565	936	1713	994
		5	696	570	848	624	1001	679	1153	733	1306	787	1469	842	1611	896	1764	950

Q : Cooling capacity [W]
W : Power input [W]

Min cooling capacity

Model name	Rated operating frequency [Hz]	External temperature [°C DB]	Cold room temperature [°C]															
			-25		-20		-15		-10		-5		0		5		10	
			Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W
LMCEY1A13AVM01	50 Hz	45	336	351	423	387	509	423	596	459	683	495	769	531	856	568	942	604
		40	356	340	443	373	530	405	617	438	704	471	790	503	877	536	964	569
		35	376	329	463	359	550	388	637	417	725	446	812	475	899	504	986	534
		32	388	323	475	350	562	377	650	404	737	431	825	458	912	485	999	513
		30	396	319	483	344	571	370	658	396	746	421	833	447	921	473	1008	499
		25	415	308	503	330	591	352	679	375	767	397	855	419	942	441	1030	463
		20	435	297	523	316	612	335	700	354	788	372	876	391	964	410	1052	428
		15	455	287	543	302	632	317	720	332	809	348	897	363	986	378	1074	393
		10	475	276	564	288	652	300	741	311	830	323	919	335	1008	347	1096	358
		5	495	265	584	274	673	282	762	290	851	299	940	307	1029	315	1118	323

Q : Cooling capacity [W]
W : Power input [W]

3D150835

LMCEY1W12AVM01

According to EN17432

Max cooling capacity

Model name	Rated operating frequency [Hz]	Inlet Water Temperature [°C] (External Temperature [°CDB])	Cold Room Temperature [°C]															
			-25		-20		-15		-10		-5		0		5		10	
			Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W
LMCEY1W12AVM01	50 Hz	48 (45)	480	773	602	830	728	888	874	945	1010	1003	1149	1061	1243	1118	1329	1176
		45	495	762	617	817	742	871	888	926	1024	981	1163	1036	1255	1091	1341	1146
		40	520	743	641	793	766	844	912	895	1047	945	1185	996	1276	1047	1360	1097
		35	545	724	665	770	789	817	935	863	1070	909	1207	956	1297	1002	1380	1048
		30 (32)	570	705	690	747	812	789	958	831	1093	873	1230	915	1318	957	1399	999
		25	595	686	714	724	836	762	982	799	1116	837	1252	875	1339	913	1419	951
		20	619	667	738	701	859	734	1005	768	1139	801	1274	835	1360	868	1438	902
		15	644	648	762	678	882	707	1029	736	1161	765	1297	794	1381	824	1458	853
		10	669	630	786	655	906	679	1052	704	1184	729	1319	754	1401	779	1477	804
		5 (5)	694	611	810	631	929	652	1076	673	1207	693	1341	714	1422	734	1497	755

Min cooling capacity

Model name	Rated operating frequency [Hz]	Inlet Water Temperature [°C] (External Temperature [°CDB])	Cold Room Temperature [°C]															
			-25		-20		-15		-10		-5		0		5		10	
			Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W
LMCEY1W12AVM01	50 Hz	48 (45)	266	378	341	406	417	435	492	463	567	492	643	520	718	548	794	577
		45	280	371	354	398	429	425	503	451	578	478	652	505	727	531	801	558
		40	303	360	376	384	449	408	522	432	595	455	667	479	740	503	813	527
		35	326	349	397	370	469	391	540	412	612	433	683	454	754	475	826	496
		30 (32)	349	338	419	356	489	374	559	392	629	410	698	428	768	446	838	465
		25	372	327	441	342	509	357	577	372	646	388	714	403	782	418	850	433
		20	395	316	462	328	529	340	596	353	663	365	729	377	796	390	863	402
		15	419	304	484	314	549	323	614	333	679	342	745	352	810	361	875	371
		10	442	293	505	300	569	307	633	313	696	320	760	327	824	333	887	340
		5 (5)	465	282	527	286	589	290	651	293	713	297	776	301	838	305	900	309

SYMBOLS

Q : Cooling capacity
W : Power Input

[W]
[W]

NOTES

Water flow rate: 0.342 m³/h

3D150836A

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

LMCEY2A19AYE01 LMCEY2A25AYE01

Max cooling capacity

According to EN17432

			Cold room temperature [° C]																Q : Cooling capacity [kW]	W : Power input [kW]
Model name	Rated operating frequency [Hz]	External temperature [° C DB]	-25		-20		-15		-10		-5		0		5		10			
			Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W				
LMCEY2A19AYE01	50 Hz	45	808	1194	999	1315	1186	1433	1369	1548	1549	1661	1737	1771	1895	1879	2062	1983		
		40	854	1164	1053	1281	1249	1394	1440	1506	1627	1614	1839	1720	1989	1824	2163	1924		
		35	899	1135	1107	1247	1311	1356	1511	1463	1706	1567	1927	1669	2083	1768	2265	1865		
		32	927	1117	1140	1226	1349	1333	1553	1437	1753	1539	1980	1639	2140	1735	2326	1830		
		30	945	1105	1162	1213	1374	1318	1582	1420	1785	1520	2015	1618	2177	1713	2367	1806		
		25	990	1076	1216	1179	1436	1279	1652	1378	1863	1473	2103	1567	2271	1658	2468	1747		
		20	1036	1047	1270	1145	1499	1241	1723	1335	1942	1427	2191	1516	2366	1603	2570	1688		
		15	1082	1017	1324	1111	1562	1203	1794	1292	2021	1380	2279	1465	2460	1548	2672	1630		
		10	1127	988	1378	1077	1624	1164	1865	1249	2100	1333	2367	1414	2554	1493	2773	1571		
		5	1173	958	1433	1043	1687	1126	1935	1207	2178	1286	2435	1363	2648	1438	2875	1512		
		45	996	1472	1244	1637	1493	1803	1741	1968	1989	2133	2255	2299	2485	2464	2733	2629		
		40	1052	1436	1312	1595	1571	1754	1831	1914	2090	2073	2387	2232	2609	2392	2868	2551		
LMCEY2A25AYE01	50 Hz	35	1109	1399	1379	1553	1650	1706	1921	1859	2191	2013	2501	2166	2732	2320	3003	2473		
		32	1142	1378	1420	1527	1697	1677	1974	1827	2252	1977	2570	2127	2806	2276	3084	2426		
		30	1165	1363	1447	1510	1729	1658	2010	1805	2292	1953	2615	2100	2856	2247	3138	2395		
		25	1221	1327	1514	1468	1807	1610	2100	1751	2393	1892	2730	2034	2979	2175	3272	2317		
		20	1277	1290	1582	1426	1886	1561	2190	1697	2494	1832	2844	1968	3103	2103	3407	2239		
		15	1334	1254	1649	1384	1965	1513	2280	1642	2596	1772	2958	1901	3227	2031	3542	2160		
		10	1390	1218	1717	1341	2043	1465	2370	1588	2697	1712	3072	1835	3350	1959	3677	2082		
		5	1446	1181	1784	1299	2122	1416	2460	1534	2798	1651	3161	1769	3474	1887	3812	2004		

Min cooling capacity

Min cooling capacity			Q : Cooling capacity [W] W : Power input [W]															
Model name	Rated operating frequency [Hz]	External temperature [° C DB]	Cold room temperature [° C]															
			-25		-20		-15		-10		-5		0		5		10	
			Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W
LMCEY2A19AYE01 LMCEY2A25AYE01	50 Hz	45	489	688	660	766	831	843	1003	921	1174	998	1345	1075	1516	1153	1688	1230
		40	546	669	720	738	893	808	1067	878	1241	948	1414	1017	1588	1087	1761	1157
		35	604	649	780	711	955	773	1131	835	1307	897	1483	959	1659	1021	1835	1083
		32	638	637	815	695	993	752	1170	810	1347	867	1525	924	1702	982	1879	1039
		30	661	629	839	684	1018	738	1196	792	1374	847	1552	901	1731	956	1909	1010
		25	718	610	899	656	1080	703	1260	750	1441	796	1621	843	1802	890	1983	936
		20	776	590	959	629	1142	668	1325	707	1508	746	1691	785	1873	824	2056	863
		15	833	571	1019	602	1204	633	1389	664	1574	696	1760	727	1945	758	2130	790
		10	891	551	1078	575	1266	598	1454	622	1641	645	1829	669	2016	693	2204	716
		5	948	531	1138	547	1328	563	1518	579	1708	595	1898	611	2088	627	2278	643

3D151059

LMCEY2W19AYE01 / LMCEY2W25AYE01

According to EN17432

Max cooling capacity

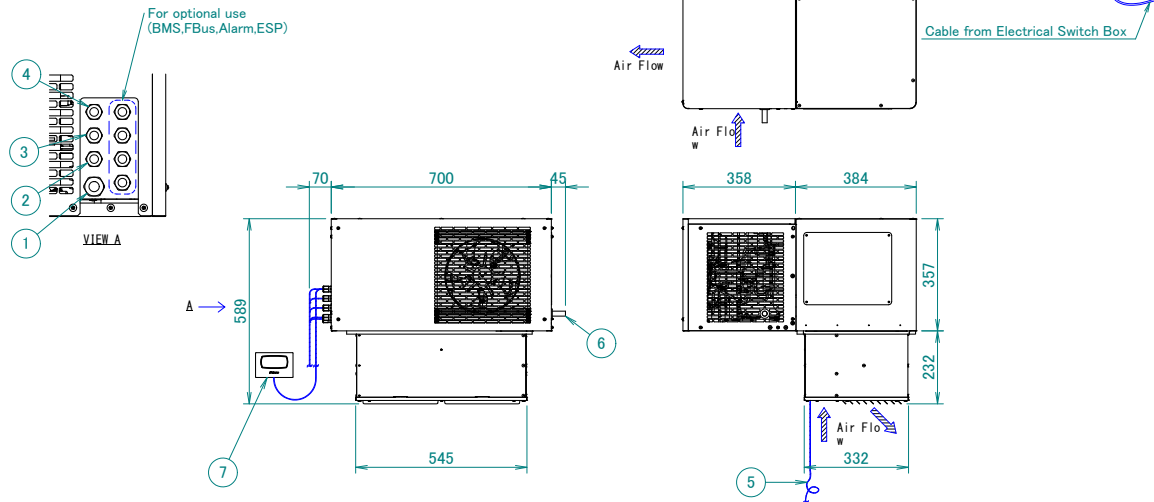
Model name	Rated operating frequency [Hz]	Inlet Water Temperature [°C] (External Temperature [°CDB])	Cold Room Temperature [°C]															
			-25		-20		-15		-10		-5		0		5		10	
			Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W	Q	W
LMCEY2W19AYE01	50 Hz	48 (45)	754	1045	953	1162	1151	1278	1371	1394	1597	1510	1826	1626	2007	1741	2140	1857
		45	781	1031	979	1142	1176	1253	1395	1364	1620	1475	1848	1585	2027	1696	2159	1806
		40	827	1008	1023	1110	1218	1212	1435	1314	1659	1416	1886	1518	2062	1620	2190	1722
		35	873	984	1066	1078	1259	1171	1475	1265	1698	1358	1923	1451	2097	1545	2222	1638
		30 (32)	919	960	1110	1045	1301	1130	1516	1215	1736	1300	1960	1384	2131	1469	2253	1554
		25	965	937	1154	1013	1343	1089	1556	1165	1775	1242	1997	1318	2166	1393	2285	1469
		20	1010	913	1197	981	1384	1048	1596	1116	1814	1183	2034	1251	2200	1318	2316	1385
		15	1056	890	1241	949	1426	1007	1636	1066	1853	1125	2072	1184	2235	1242	2348	1301
		10	1102	866	1285	916	1468	966	1677	1017	1891	1067	2109	1117	2270	1167	2379	1217
		5 (5)	1148	843	1329	884	1509	926	1717	967	1930	1008	2146	1050	2304	1091	2411	1132
		48 (45)	998	1383	1261	1538	1524	1692	1816	1847	2117	2002	2422	2156	2663	2311	2841	2465
		45	1034	1365	1296	1512	1558	1660	1848	1808	2148	1955	2452	2103	2690	2250	2866	2398
LMCEY2W25AYE01	50 Hz	40	1095	1333	1354	1470	1613	1606	1902	1742	2199	1878	2501	2014	2736	2150	2908	2286
		35	1155	1302	1412	1427	1668	1551	1955	1676	2250	1801	2550	1925	2782	2050	2950	2174
		30 (32)	1216	1271	1470	1384	1723	1497	2008	1610	2302	1723	2600	1836	2828	1949	2992	2063
		25	1276	1240	1527	1341	1778	1443	2062	1544	2353	1646	2649	1748	2874	1849	3033	1951
		20	1337	1209	1585	1299	1834	1389	2115	1479	2405	1569	2698	1659	2920	1749	3075	1839
		15	1398	1177	1643	1256	1889	1334	2169	1413	2456	1491	2748	1570	2966	1648	3117	1727
		10	1458	1146	1701	1213	1944	1280	2222	1347	2508	1414	2797	1481	3012	1548	3159	1615
		5 (5)	1519	1115	1759	1170	1999	1226	2275	1281	2559	1337	2846	1392	3058	1448	3200	1501

6 Dimensional drawings

6 - 1 Dimensional Drawings

LMCEY1A13AVM01

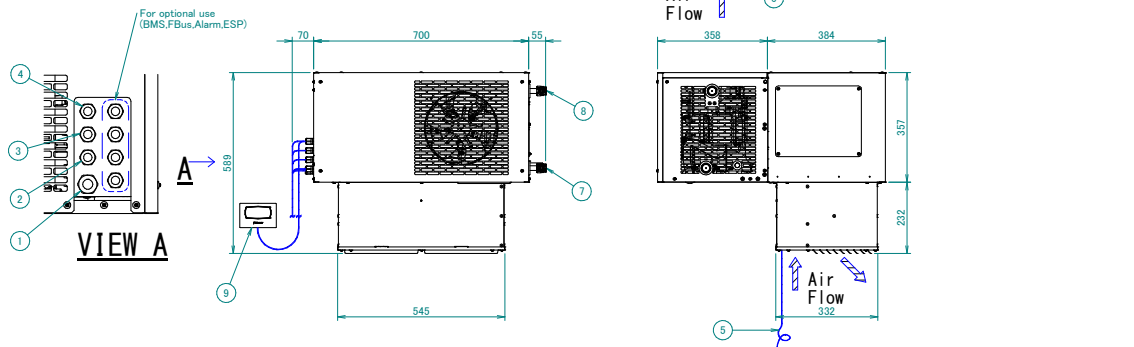
No.	Name	Note
1	Cable for power supply	Lenght net out of unit: 5m
2	Cable for door switch	Lenght net out of unit: 5m
3	Cable for door heater	Lenght net out of unit: 5m
4	Cable for remote controller	Lenght net out of unit: 5m
5	Cable for cold room light	Lenght net out of unit: 2m
6	Drain outlet pipe	
7	Remote controller	



3D147207

LMCEY1W12AVM01

No.	Name	Note
1	Cable for power supply	Lenght net out of unit: 5m
2	Cable for door switch	Lenght net out of unit: 5m
3	Cable for door heater	Lenght net out of unit: 5m
4	Cable for remote controller	Lenght net out of unit: 5m
5	Cable for cold room light	Lenght net out of unit: 2m
6	Drain outlet pipe	
7	Water inlet pipe	
8	Water outlet pipe	
9	Remote controller	



3D152142

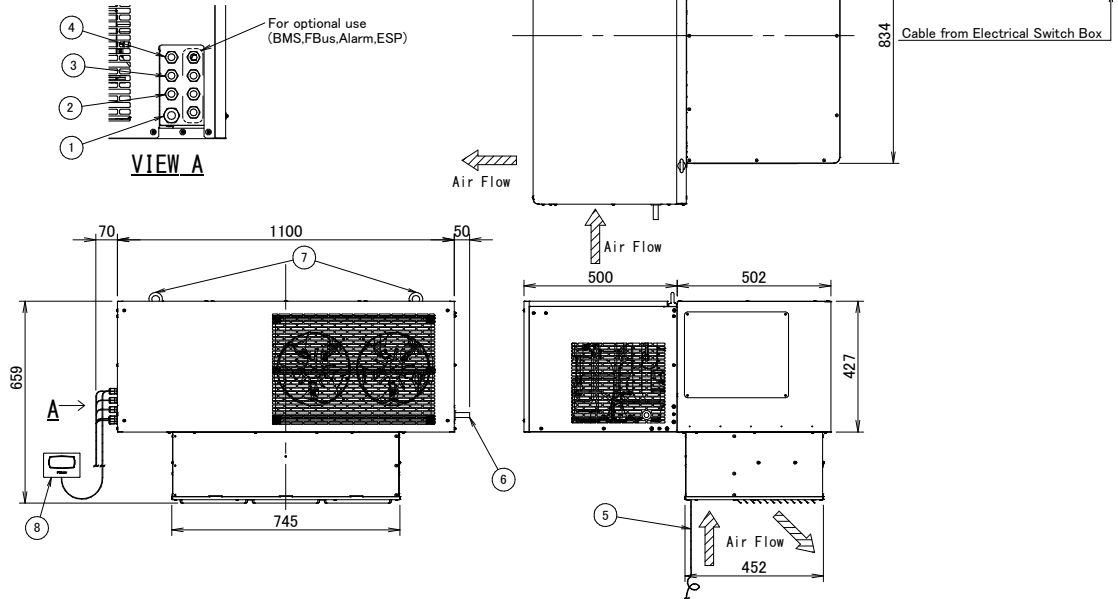
6 Dimensional drawings

6 - 1 Dimensional Drawings

LMCEY2A19AYE01

LMCEY2A25AYE01

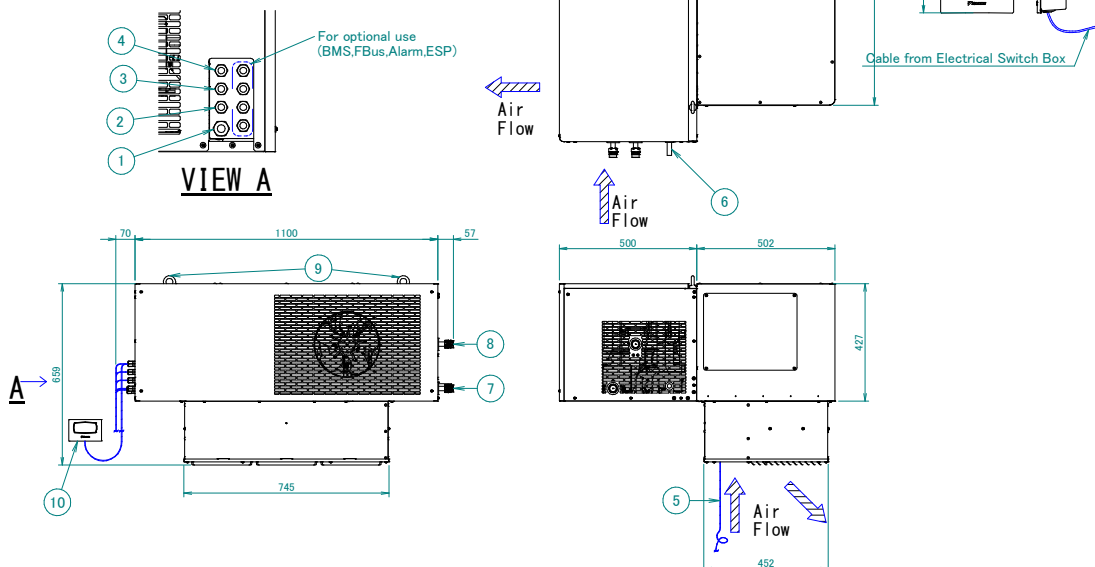
No.	Name	Note
1	Cable for power supply	Length net out of unit: 5m
2	Cable for door switch	Length net out of unit: 5m
3	Cable for door heater	Length net out of unit: 5m
4	Cable for remote controller	Length net out of unit: 5m
5	Cable for cold room light	Length net out of unit: 2m
6	Drain outlet pipe	
7	Eyebolts	
8	Remote controller	



LMCEY2W19AYE01

LMCEY2W25AYE01

No.	Name	Note
1	Cable for power supply	Length net out of unit: 5m
2	Cable for door switch	Length net out of unit: 5m
3	Cable for door heater	Length net out of unit: 5m
4	Cable for remote controller	Length net out of unit: 5m
5	Cable for cold room light	Length net out of unit: 2m
6	Drain outlet pipe	
7	Water inlet pipe	
8	Water outlet pipe	
9	Eyebolts	
10	Remote controller	

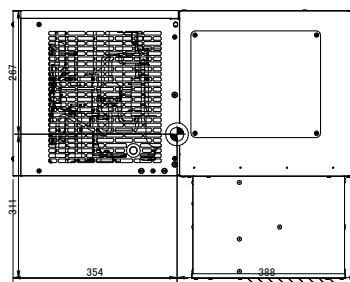
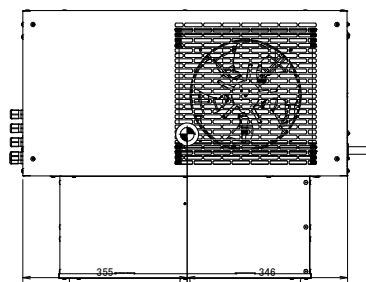


7 Centre of gravity

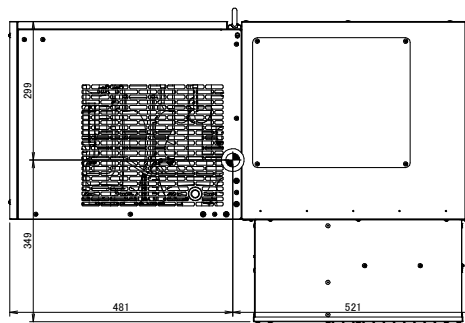
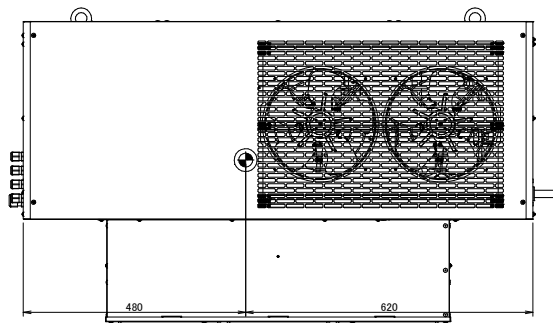
7 - 1 Centre of Gravity

LMCEY

LMCEY1*



LMCEY2*

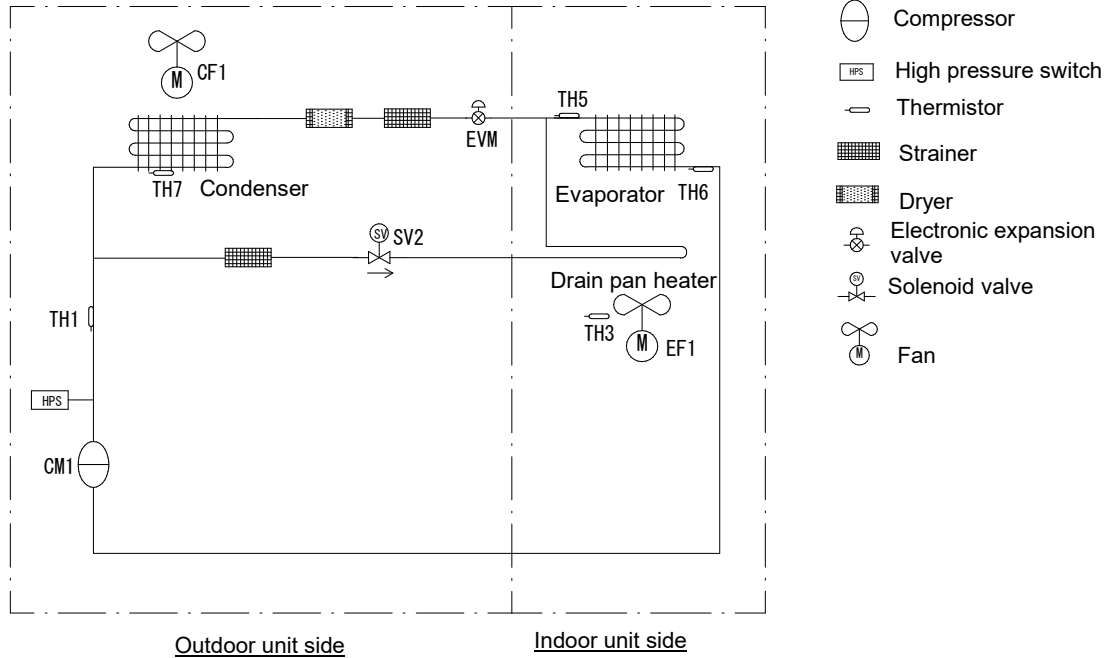


3D153582

8 Piping diagrams

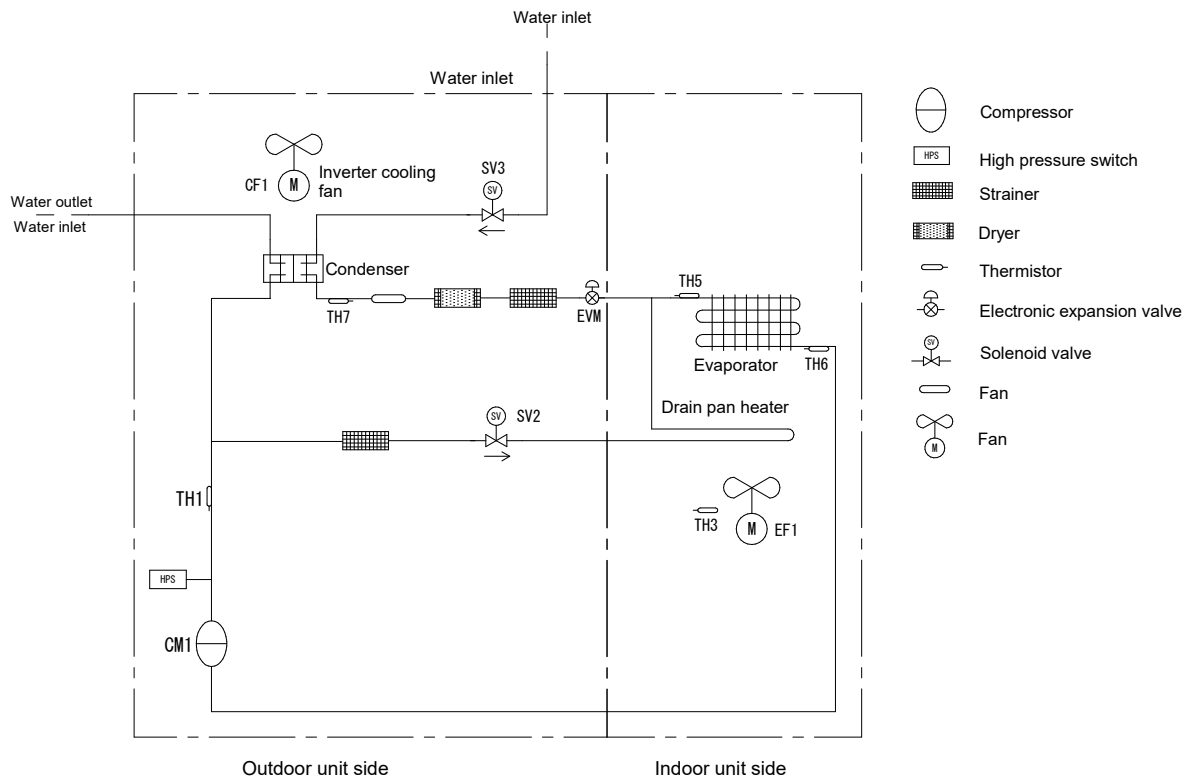
8 - 1 Piping Diagrams

LMCEY1A13AVM01



3D148148

LMCEY1W12AVM01

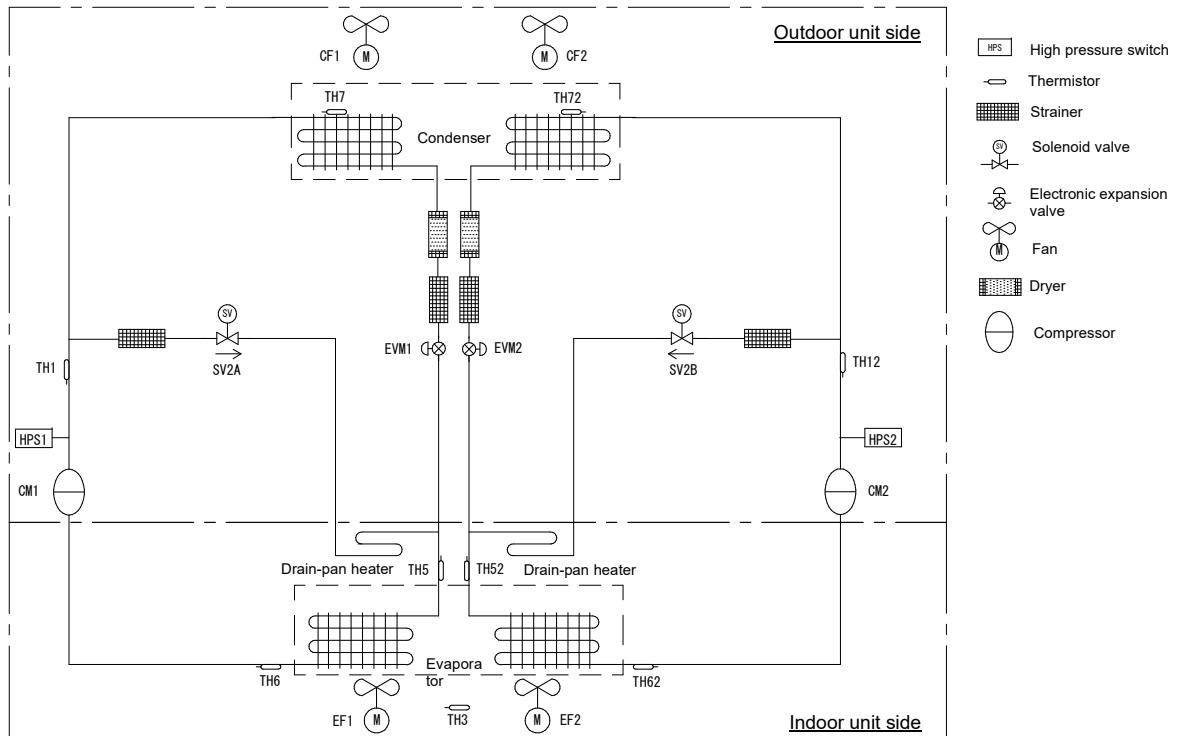


3D148157

8 Piping diagrams

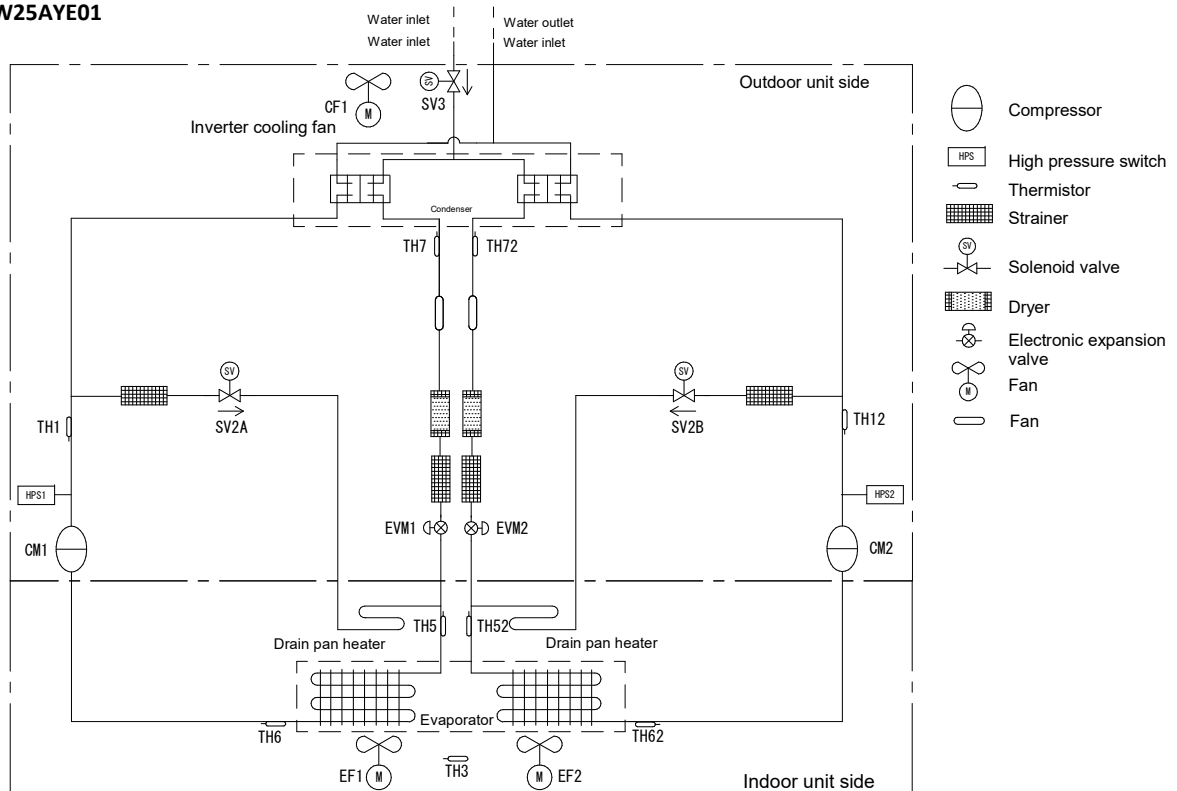
8 - 1 Piping Diagrams

LMCEY2A19AYE01
LMCEY2A25AYE01



3D148156

LMCEY2W19AYE01
LMCEY2W25AYE01

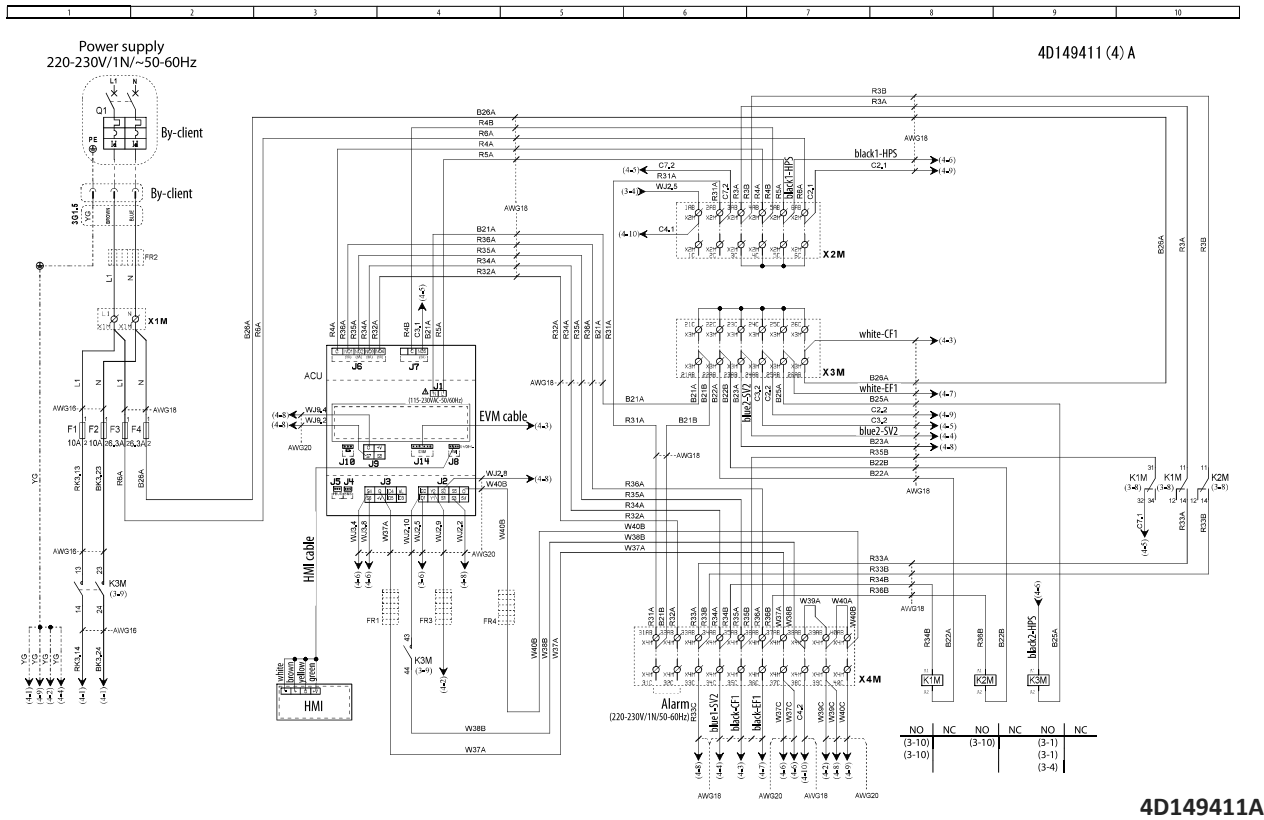


3D148158

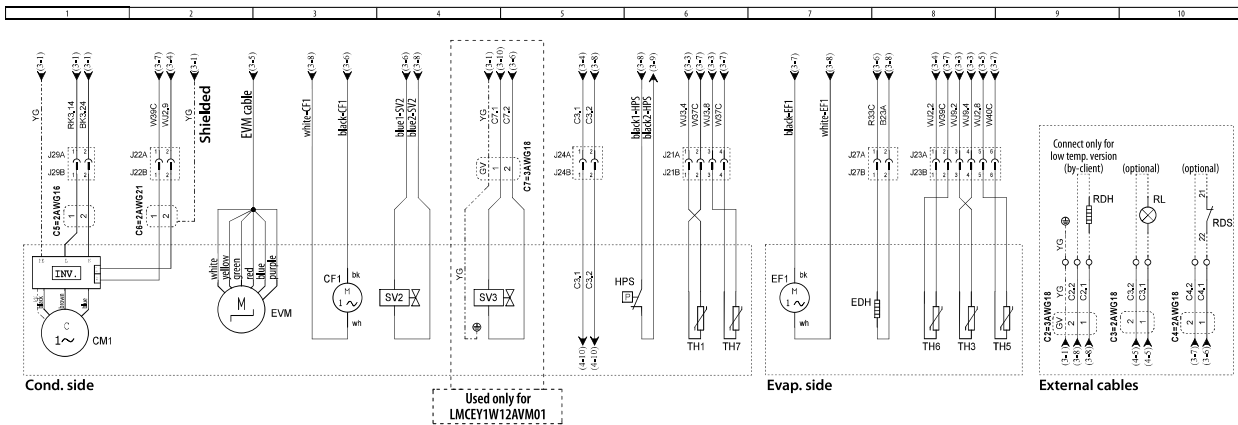
9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

LMCEY1W12AVM01



LMCEY1W12AVM01



Legend

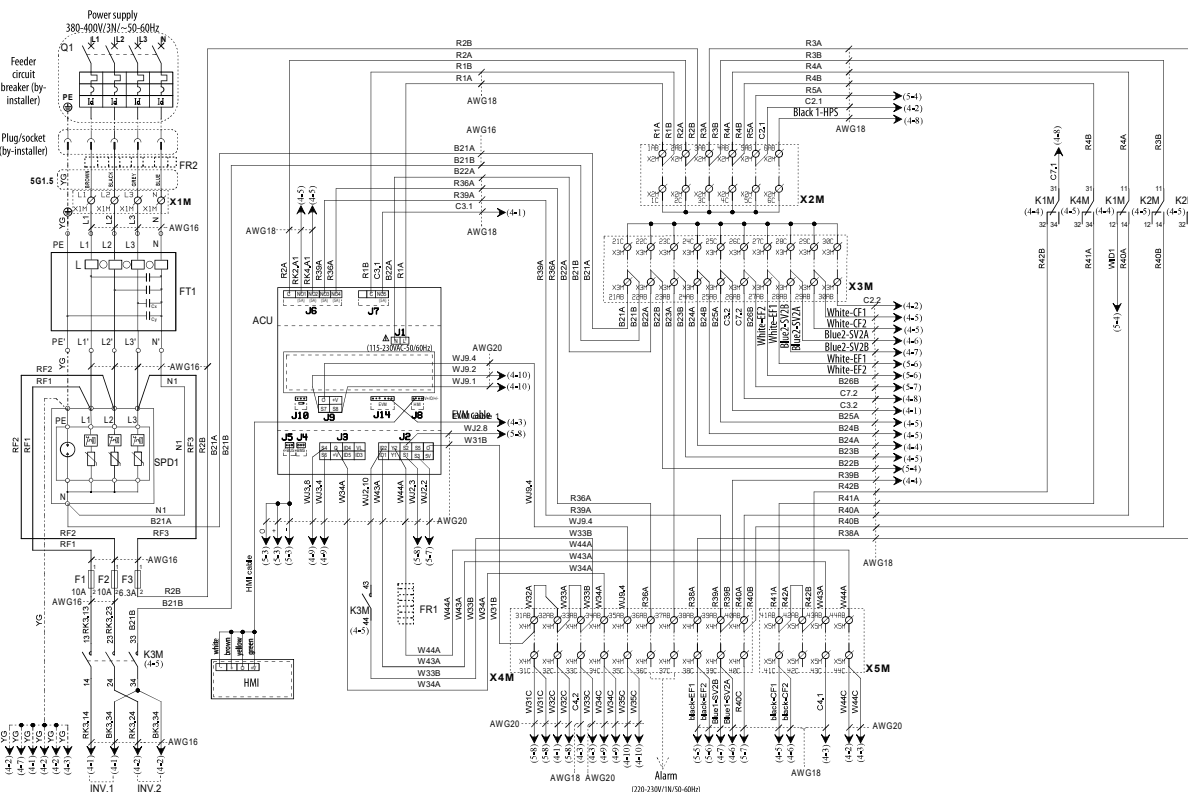
Q1	Feeder circuit breaker (by - client)	FR1	Ferrite1	K1M	Drain heater relay
ACU	Unit controller	FR2	Ferrite2	K2M	Drain heater relay
CF1	Condenser fan (1mt cable)	FR3	Ferrite3	K3M	Compressor relay
CM1	Compressor	FR4	Ferrite4	RDH	Room door heater
C1 cable	Supply cable	HMI	Human machine interface	RDS	Room door switch
C2 cable	Door heater cable	HMI cable	HMI Cable connection	RL	Room light (lamp+bulb)
C3 cable	Room light cable	HPS	High pressure switch	SV2	Defrost solenoid valve (coil)
C4 cable	Door switch cable	INV	Inverter compressor	SV3	Water solenoid valve (coil)
C5 cable	Inverter supply cable	J21A	TH1-TH7 Probes male connector	TH1	Discharge compressor probe
C6 cable	PWM Inverter cable	J21B	TH1-TH7 Probes female connector	TH3	Suction air probe
C7 cable	Water solenoid valve cable	J22A	PWM Inverter male connector	TH5	Evap. Inlet probe
EDH	Evaporator drain heater	J22B	PWM Inverter female connector	TH6	Evap. Outlet probe
EF1	Evaporator fan (2mt cable)	J23A	TH3-TH5-TH6 Probes male connector	TH7	Condenser probe
EVM	Electronic expansion valve (1mt cable)	J23B	TH3-TH5-TH6 Probes female connector	X1M	Supply cable terminal board
F1	Main line fuse	J24A	Room light male connector	X2M	Phase terminal board
F2	Main neutral fuse	J24B	Room light female connector	X3M	Neutral terminal board
F3	Line aux fuse	J29A	Supply inverter male connector	X4M	Output terminal board
F4	Neutral aux fuse	J29B	Supply inverter female connector		

4D149411A

9 Wiring diagrams

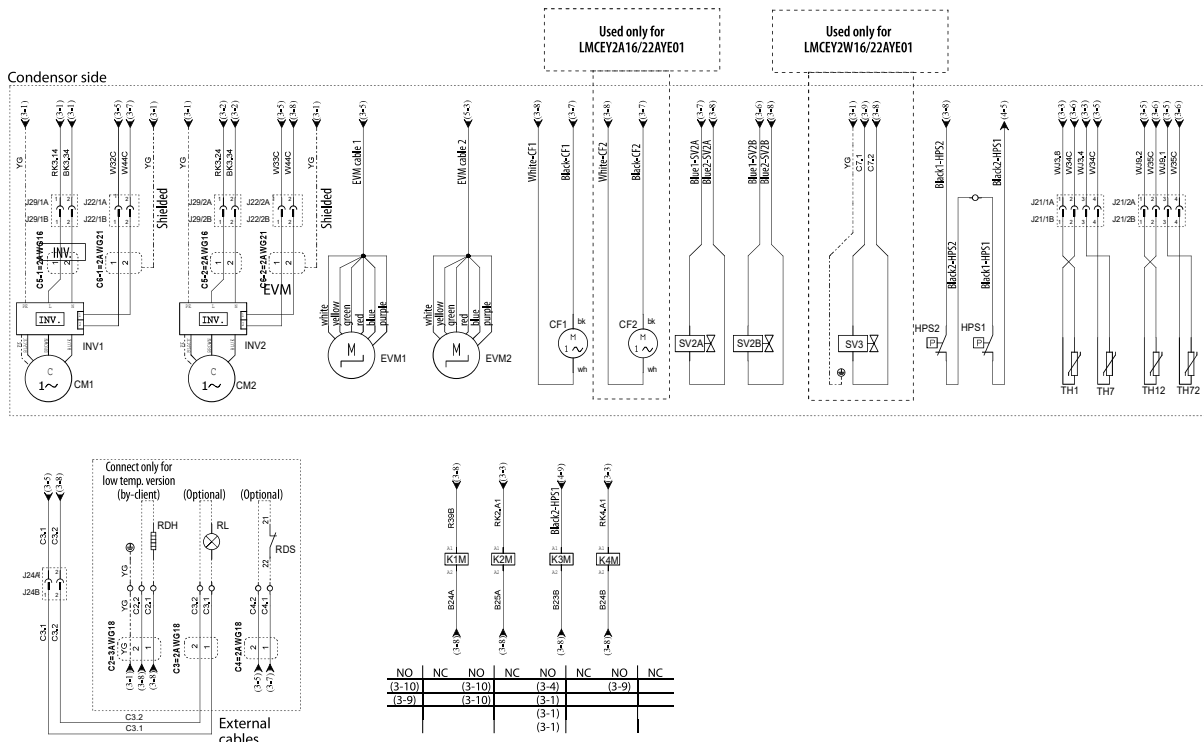
9 - 1 Wiring Diagrams - Three Phase

LMCEY2A19AYE01 / LMCEY2A25AYE01 / LMCEY2W19AYE01 / LMCEY2W25AYE01



4D150317

LMCEY2A19AYE01 / LMCEY2A25AYE01 / LMCEY2W19AYE01 / LMCEY2W25AYE01

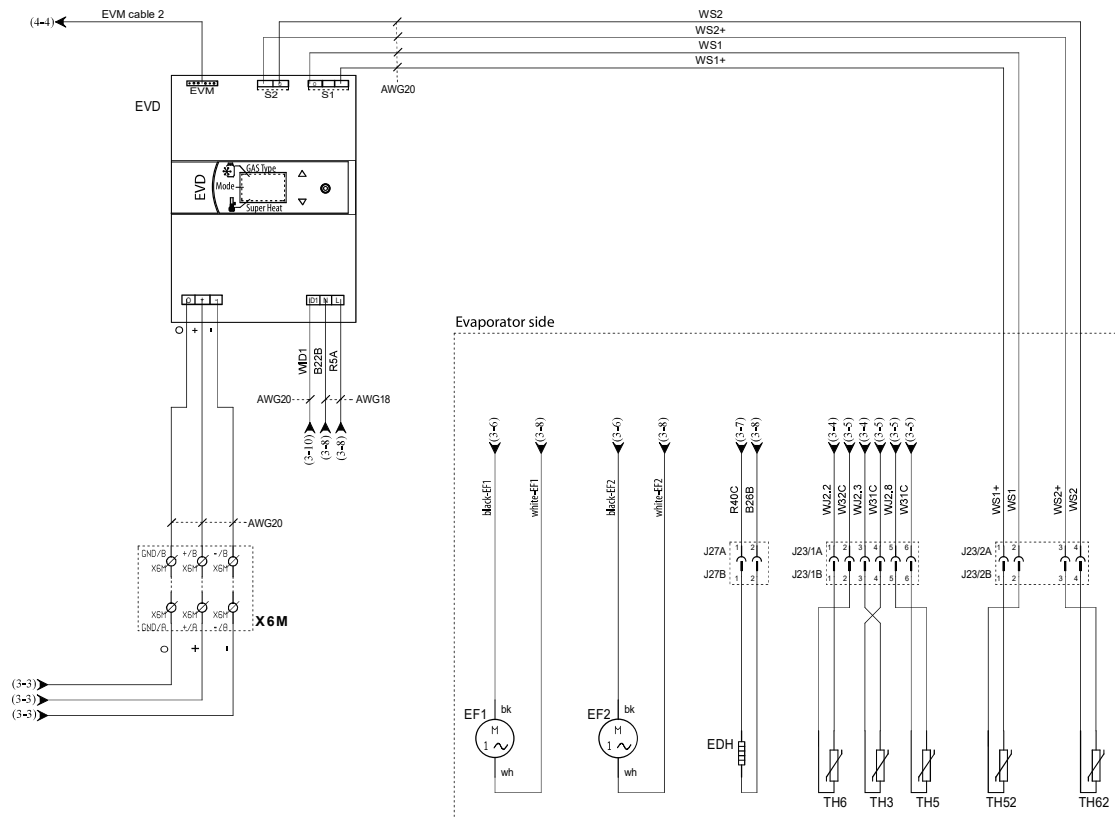


4D150317

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

LMCEY2A19AYE01 / LMCEY2A25AYE01 / LMCEY2W19AYE01 / LMCEY2W25AYE01



4D150317

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

9

LMCEY2A19AYE01
LMCEY2A25AYE01
LMCEY2W19AYE01
LMCEY2W25AYE01

Legend

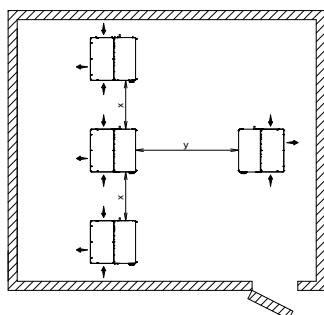
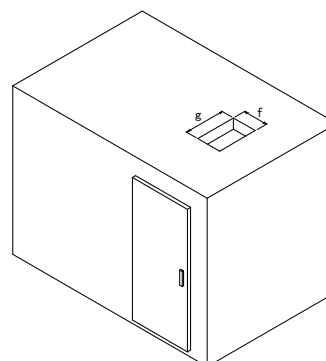
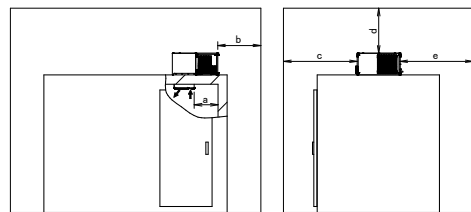
Device	Descriptions	Device	Descriptions
ACU	Unit controller	J23/2B	TH52-TH62 Probes female connector
EVD	EEV Controller	J24A	Room light male connector
CF1	Condenser fan 1	J24B	Room light female connector
CF2	Condenser fan 2	J27A	Drain heater male connector
CM1	Compressor 1	J27B	Drain heater female connector
CM2	Compressor 2	J29/1A	Supply inverter 1 male connector
C1 cable	Supply cable	J29/1B	Supply inverter 1 female connector
C2 cable	Door heater cable	J29/2A	Supply inverter 2 male connector
C3 cable	Room light cable	J29/2B	Supply inverter 2 female connector
C4 cable	Door switch cable	K1M	Drain heater relay
C5-1 cable	Inverter 1 supply cable	K2M	Drain heater/evaporator fans relay
C6-1 cable	PWM Inverter 1 cable	K3M	Compressor relay
C5-2 cable	Inverter 2 supply cable	K4M	Condensor fans relay
C6-2 cable	PWM Inverter 2 cable	RDH	Room door heater
C7 cable	Water solenoid valve cable	RDS	Room door switch
EDH	Evaporator drain heater	RL	Room light
EF1	Evaporator fan 1	SV2A	Defrost solenoid valve 1 (coil)
EF2	Evaporator fan 2	SV2B	Defrost solenoid valve 2 (coil)
EVM1	Electronic expansion valve 1	SV3	Water solenoid valve 3 (coil)
EVM2	Electronic expansion valve 2	TH3	Suction air probe
F1	Main line fuse	TH1	Discharge compressor 1 probe
F2	Main neutral fuse	TH12	Discharge compressor 2 probe
F3	Line aux fuse	TH5	Evap. Inlet probe circ.1
HMI	Human machine interface	TH52	Evap. Inlet probe circ.2
HMI cable	HMI Cable connection	TH6	Evap. Outlet probe circ.1
HPS1	High pressure switch 1	TH62	Evap. Outlet probe circ.2
HPS2	High pressure switch 2	TH7	Condenser probe circ.1
INV1	Inverter compressor 1	TH72	Condenser probe circ.2
INV2	Inverter compressor 2	X1M	Supply cable terminal board
J21/1A	TH1-TH7 Probes male connector	X2M	Phase terminal board
J21/1B	TH1-TH7 Probes female connector	X3M	Neutral terminal board
J21/2A	TH12-TH72 Probes male connector	X4M	Output terminal board
J21/2B	TH12-TH72 Probes female connector	X5M	Output terminal board
J22/1A	PWM Inverter 1 male connector	X6M	FBUS Terminal board
J22/1B	PWM Inverter 1 female connector	S1-EVD	Connector S1 EVD
J22/2A	PWM Inverter 2 male connector	S2-EVD	Connector S2 EVD
J22/2B	PWM Inverter 2 female connector	FT1	3-Phase filter
J23/1A	TH3-TH5-TH6 Probes male connector	SPD1	Surge protector
J23/1B	TH3-TH5-TH6 Probes female connector	FR1	Ferrite 1
J23/2A	TH52-TH62 Probes male connector	FR2	Ferrite 2

4D150317

10 Installation

10 - 1 Installation Method

LMCEY



MODEL NAME	a	b	c	d	e	f	g	x	y
LMCEY1A13AVM01	≥533	≥400	≥400	≥500	≥400	337	550	≥400	≥8000
LMCEY2A19AYE01	≥533	≥400	≥400	≥500	≥400	458	750	≥400	≥8000
LMCEY2A25AYE01	≥533	≥400	≥400	≥500	≥400	458	750	≥400	≥8000
LMCEY1W12AVM01	≥533	≥400	≥400	≥500	≥400	337	550	≥400	≥8000
LMCEY2W19AYE01	≥533	≥400	≥400	≥500	≥400	458	750	≥400	≥8000
LMCEY2W25AYE01	≥533	≥400	≥400	≥500	≥400	458	750	≥400	≥8000

NOTES)

1. For the correct installation of the unit in order to ensure efficient operation and good air circulation follow the distances showed in the table.
2. For detail of positioning of the unit respect to the cold room door refer to the installation manual.

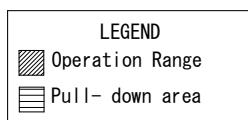
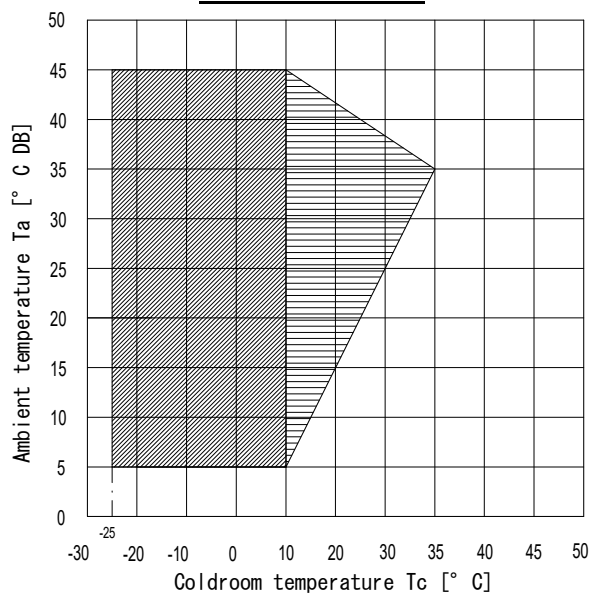
3D152956

11 Operation range

11 - 1 Operation Range

LMCEY

OPERATION RANGE

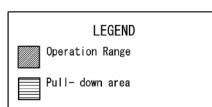
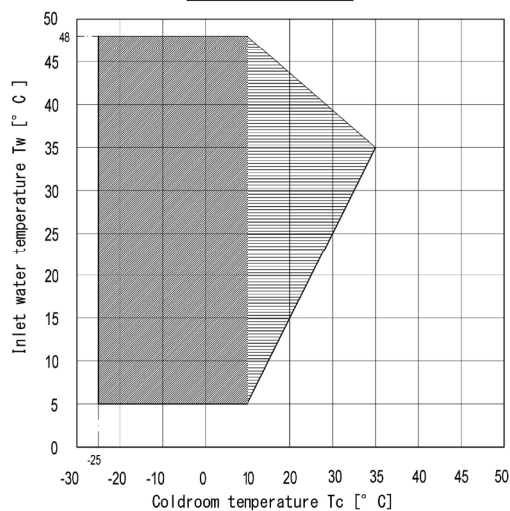


MODEL NAME
LMSEY1A09AVM01
LMSEY1A13AVM01
LMSEY2A19AYE01
LMSEY2A25AYE01
LMCEY1A13AVM01
LMCEY2A19AYE01
LMCEY2A25AYE01

3D152611

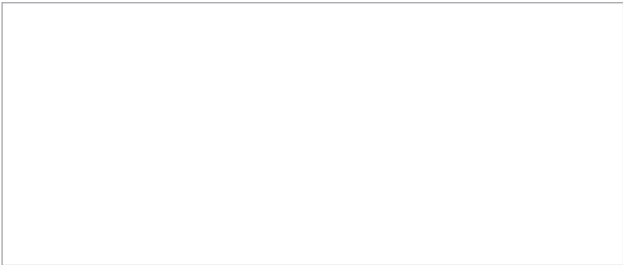
LMCEY

OPERATION RANGE



MODEL NAME
LMCEY1W12AVM01
LMCEY2W19AYE01
LMCEY2W25AYE01

3D152612



EEDEN25

10/2025



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.