



MDAC - MUAC

LEONARDO™

AIR COOLED
DIRECT EXPANSION
UNITS WITH
CENTRIFUGAL FANS.
RANGE:
FROM 22.0 TO 64.3 kW.



Leonardo™ Direct Expansion precision air conditioning units designed for environments where high-tech apparatus are used: web hotels, telephone exchanges, large computer rooms, data storage and transmission rooms. Thanks to its versatility the Leonardo™ series is the flexible solution when outstanding reliability is the vital prerequisite.

PRINCIPAL CHARACTERISTICS

Air conditioning units characterised by high reliability and energy save;
Possibility to control the temperature and relative humidity of the environment;
Uniguard microprocessor control system for either local or remote control management;
Total front access for unit maintenance;
Downflow and upflow versions;
Scroll compressors;
One or two independent refrigerant circuits;
Small footprint: unit depth of 750mm for the complete range.



TECHNICAL DATA

MODEL MDAC/MUAC		511	611	711	721	722	811	821	822
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Width	mm	1100	1100	1510	1510	1510	1510	1510	1510
Depth	mm	750	750	750	750	750	750	750	750
Weight	kg	255	260	330	380	385	335	385	395
Airflow (1)	m ³ /h	5600	5600	9740	9740	9740	9740	9740	9740
Total cooling capacity (1)	kW	22,0	22,9	26,3	27,8	27,8	30,0	32,1	32,1
Sensible cooling capacity (1)	kW	20,1	20,5	26,3	27,8	30,0	32,1	32,1	32,1
Refrigerant circuits number		1	1	1	1	2	1	1	2
Compressor number		1	1	1	2	2	1	2	2

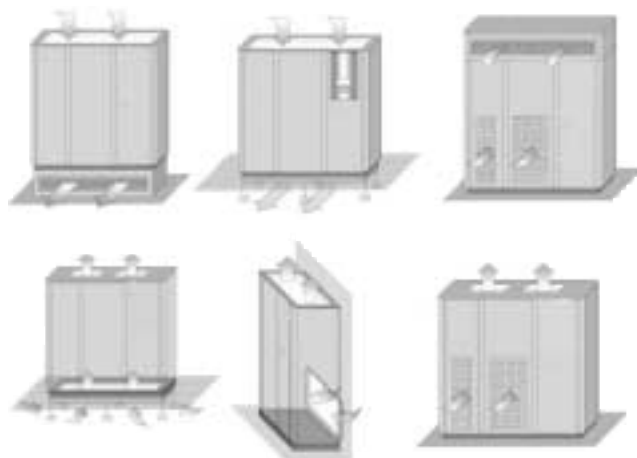
MODEL MDAC/MUAC		1311	1321	1322	1411	1421	1422
Height	mm	1980	1980	1980	1980	1980	1980
Width	mm	1750	1750	1750	1750	1750	1750
Depth	mm	750	750	750	750	750	750
Weight	kg	450	455	460	455	460	465
Airflow (1)	m ³ /h	10790	10790	10790	10790	10790	10790
Total cooling capacity (1)	kW	34,6	33,5	33,5	42,3	37,4	37,4
Sensible cooling capacity (1)	kW	34,6	33,5	33,5	39,4	37,4	37,4
Refrigerant circuits number		1	1	2	1	1	2
Compressor number		1	2	2	1	2	2

MODEL MDAC/MUAC		1622	1642	1722	1742	1822	1842
Height	mm	1980	1980	1980	1980	1980	1980
Width	mm	2400	2400	2400	2400	2400	2400
Depth	mm	750	750	750	750	750	750
Weight	kg	615	620	625	620	625	630
Airflow (1)	m ³ /h	16730	16730	16730	16730	16730	16730
Total cooling capacity (1)	kW	50,5	50,3	57,4	57,1	64,3	63,1
Sensible cooling capacity (1)	kW	50,5	50,3	57,4	57,1	60,7	60,1
Refrigerant circuits number		2	2	2	2	2	2
Compressor number		2	4	2	4	2	4

(1) Based on 24°C/50%RH, ESP=20Pa, condensing temperature = 48°C with R407C refrigerant.



APPLICATIONS



VERSIONS

The direct expansion range is available for downflow and upflow versions with the following principal accessories:

- Electric reheat;
- Enhanced electric reheat;
- Hot water reheat;
- Hot gas reheat;
- Condensate drain pump;
- Immersed-electrode humidifier;
- Humidifier with cleanable electrodes;
- Air filter installed inside the unit up to EU5 efficiency;
- Fresh air module;
- Microprocessor graphic display control Uniguard UG10;
- Microprocessor control Uniguard UG20;
- Microprocessor control Uniguard UG30;
- Upflow version available with air suction from the front, the rear or the base.