



R410A
ZERO OZONE DEPLETION POTENTIAL

LARGE DUCTED SPLIT

Large Ducted Split

1. Introduction

a. ECO AIRE PTY (Ltd)

ECO AIRE is an HVAC supplier of reverse cycle split air conditioners. The company has been supplying units to the commercial and industrial markets for over 15 years. ECO AIRE's mission is to provide the most competitively priced, reliable and efficient air conditioning equipment available on the market.

b. ECO AIRE's LARGE DUCTED SPLIT SERIES

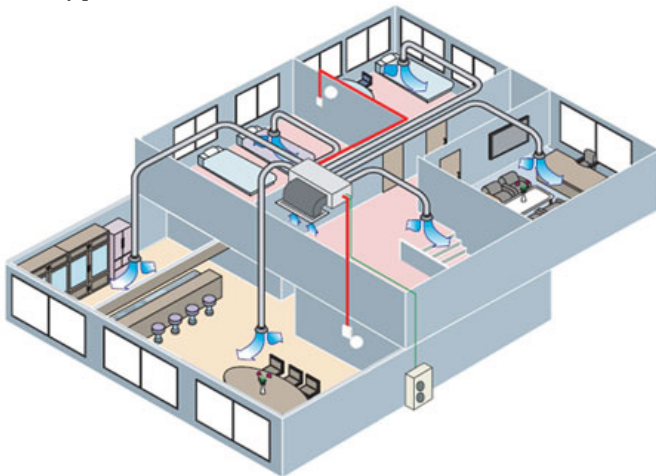
Our units are single Split units which are factory assembled, tested and shipped complete with compressor, evaporator and condenser coils, fans and controls. They may be used for cooling only or heat pump applications. The units are ideal for residential, commercial and industrial applications and are available in nominal cooling capacity from 25 to 88 kW. Quality design and construction (with easy installation and maintenance) make ECO AIRE Air-cooled Split Units (with hermetic scroll compressors) the preferred option for applications.

c. ECO AIRE Large Ducted Split Units: Applications

The Split systems are unobtrusive, quiet and designed to provide year round comfort – warming in winter and cooling in summer. ECO AIRE's wide pro-duct range offers a unit to suit small to large split air conditioner applications, e.g. offices, shops, hotels, fast food outlets, restaurants, petrol stations, open plan office and work spaces, supermarkets, shopping malls and auditoriums. Units are suited to high static pressure applications where large volume spaces are to be air conditioned. Long duct runs are possible enabling greater installation flexibility. This range of units has been developed to meet the needs of typical applications.

Should you have special requirements, such as higher air flows or greater sensible duty units, please contact your nearest ECO AIRE representative. ECO AIRE engineers have extensive experience in designing air conditioning equipment for specific applications.

2. Typical Installation



3. Descriptions

a. Casing

ECO AIRE's LARGE DUCTED SPLIT package units come in 2 main casing designs for the evaporator section:

i) Single skin high grade sheet steel casing with a 25mm closed cell fan insulation.

The compressor section is a high grade sheet steel casing and frame with a weather proof electrostatic, polyester epoxy powder paint oven baked external finishing, designed for outdoor installation..

ii) 25 - 25mm Double skin with polyurethane foam injected panel insulation.

b. Evaporator and Condenser Coils

The evaporator and condenser coils are designed to deliver their respective duties at optimum performance at all design conditions. Coils are manufactured from seamless copper tubes mechanically expanded into aluminium fins. All coils are tested (under water to avoid leakage) at 30kg/cm² (450 Psi) air pressure. They also undergo cleaning after manufacturing for optimum system cleanliness.

c. Filters

All models are provided with 50mm thick primary filters (as standard features).

d. Drain Pan

The drain pan is stainless steel and insulated on the underside to prevent condensation. All units are provided with a drain pan having the drain connection from one side only.

e. Compressor

ECO AIRE uses R-410A refrigerant gas-cooled scroll compressors with internal thermal protection. Soft start is standard with high efficiency, low sound, in order to match all other ECO AIRE products' reliability and efficiency.

f. Direct Driven Condenser Axial Fans

All condenser fan blades are of the axial type, which are directly mounted on the motor shaft. All fans are selected for optimum efficiency and for maximum sound power reduction. Fan blades are made for maximum corrosion resistance, and are statically and dynamically balanced before installation. All condenser fans are equipped with wire guards. All fan motors are air-cooled with internal thermal protection, with class "IP56" electrical insulation.

g. Belt Driven Evaporator Fan

Fans are of the centrifugal DWDI FCC type that is designed for maximum efficiency for uniform air distribution. Fans are V-belt driven with a fixed pitch pulley. All fans are statically and dynamically balanced to ensure quiet operation and smooth performance with a flexible connection at the fan/casing interface (**DWDI BCC fans are available as optional for extra high static applications**).

h. Evaporator Fan Motors

Motors are induction type, with fan motor assembly placed on a floating base.

4. Standard Features

- a. Heat pump Split unit with 4-way reverse valve, suction accumulator, oil separator (for Inverter only), liquid receiver are standard features in heat pump option.
- b. Easily accessible system components.
- c. Ample space for easy access to power and control panels.
- d. Heavy duty mounting chassis for the whole unit with lifting holes.
- e. Anti-vibration mounted compressor.
- f. Weather-proof, polyester epoxy powder electrostatic paint oven-baked finish for sheet metal and base frame. Aluminium mesh on condenser section.
- g. All units are shipped from the factory, tested and the protecting devices are set.
- h. 50mm primary filter as standard for returning air inlet.
- i. Quick release fasteners are provided on electrical and compressor apartment cabinet.

5. Electrical Features

- a. Control and power panels include the direct-on-line starting contactors for the compressors and condenser fan motor.
- b. Internal thermal motor protector for condenser fan motors
- c. Compressor internal thermal protection and discharge temperature.
- d. Anti-recycling protection (time delay) for compressors through microprocessor.
- e. Compressor motor protector
- f. Microprocessor controller with the following main functions:
 - i) External remote ON/OFF button for remote operation of the unit using external ON/OFF switch or connection to building management system.
- g. High and low pressure transducers as well as safety switches (capsule type, factory pre-set) for all models.
- h. Voltage monitor controller (phase sequence relay) for monitoring the main incoming power supply for the unit which provides protection from single-phasing, under-voltage, phase-voltage imbalance

and phase-non-sequence of the supply power.

i. Low ambient control (Optional):

The refrigeration systems in all units are inherently designed to operate efficiently, without extra controls or modifications. To permit the unit to operate in low ambient conditions an inverter fan speed head pressure control come standard

6. Refrigeration Features

- a. High efficient hermetic scroll compressor
- b. Filter drier
- c. Charging points pin valve
- d. Expansion valve
- e. Suction Accumulator
- f. Liquid receiver

7. Optional Features

7.1 CONSTRUCTION OPTIONS

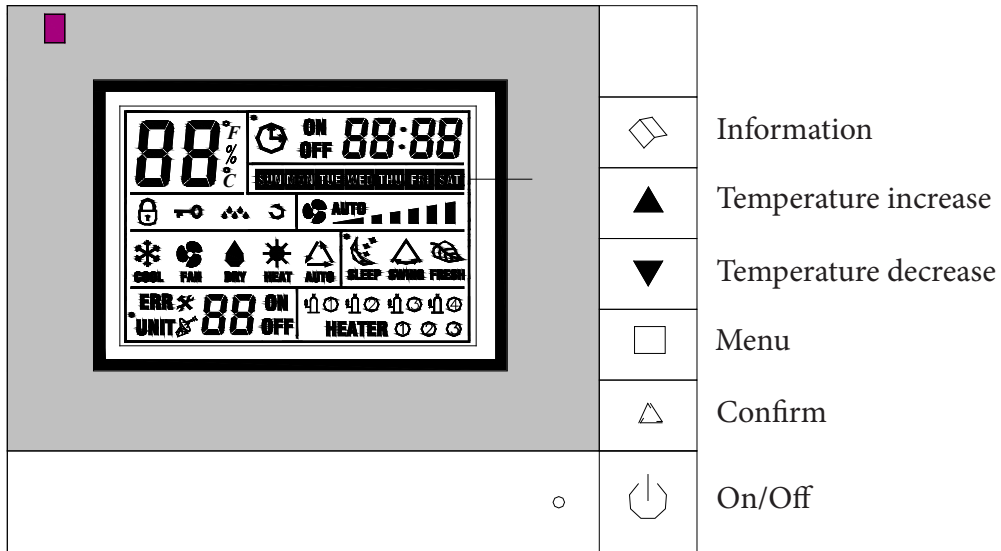
- a. Evaporator with treated anti-corrosion protection for coils (blue fins) for copper/aluminium coils only.
- b. High static condenser fan option.
- c. Upgraded evaporator fan motor drives.

7.2 ELECTRICAL OPTIONS

- a. Building automation system interface. Interfacing with other building management systems.
- b. Dual power supply input.
- c. Remote control panel.

FOR ALL YOUR COMMERCIAL APPLICATIONS:

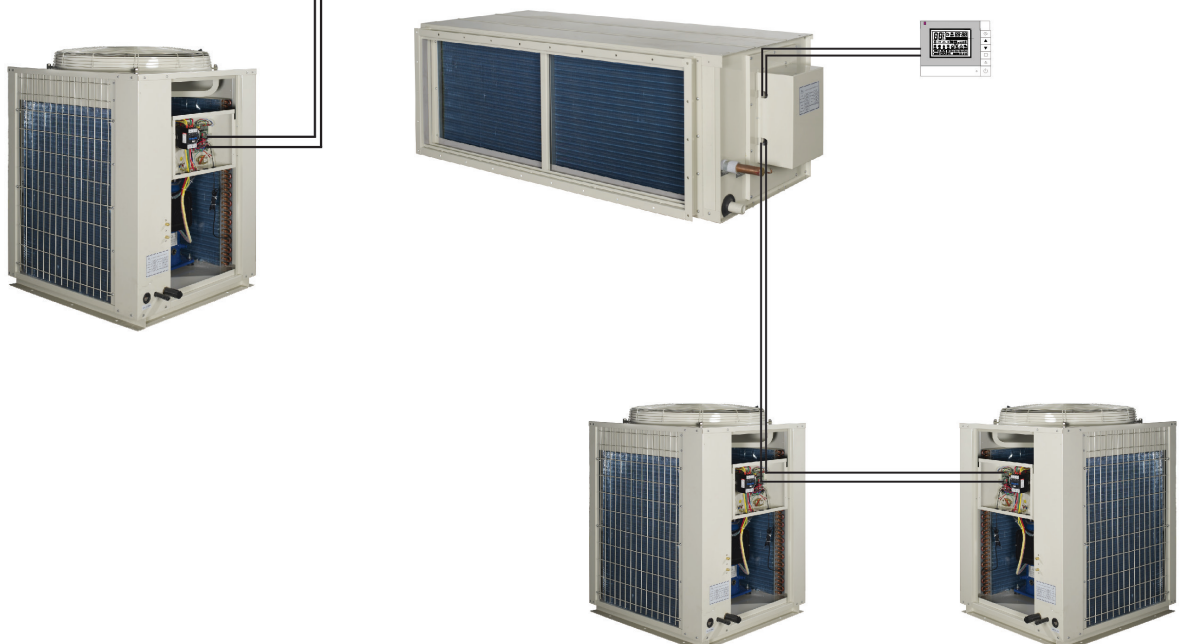
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SINGLE CONDENSING UNIT SYSTEM



TWIN CONDENSING UNIT SYSTEM



SPECIFICATIONS



LARGE DUCTED SPLIT R410A SINGLE CONDENSING UNITS

Evaporator Model No.		LDE20	LDE25	LDE30	LDE35	LDE44		
Total Cooling Capacity	kW	18.9	25.7	29.5	32.6	44.7		
	Btu/h	64487	87688	100654	111231	152516		
Sensible Cooling Capacity	kW	14.9	19.7	23.3	27.2	34.8		
	Btu/h	50839	67216	79500	93024	118738		
Total Heating Capacity	kW	20.3	28.1	31.4	34.1	47.2		
	Btu/h	69264	95877	107137	116349	161046		
Fan Type		3 Speed Direct Drive				Belt Drive Motor		
Fan Model No.		KDF 2.2B / 250	KDF2.25RD	KDF2.5IIRD	KDF2.5IIIRD	SYT12-9L2		
Power Supply		220 V / 1 PH / 50 Hz				380 V / 3 PH / 50 Hz		
Fan Motor Model No.		YSK-550w-4P	YSK-370w-4P	YSK-550w-4P	YSK-550w-4P	Y100L1-4 (2.2kW-4)		
Fan Motor Quantity		1	2	2	2	1		
Fan Motor Starting Current		A	18	12	18	21.4		
Fan Motor Running Current		A	4.5	3	4.5	4.3		
Fan Motor Output Power / Pole		kW / Pole	0.55kW-4P	0.75kW-4P x 2	1.1kW-4P x 2	2.2kW-4P		
Airflow		l/s	1111	1305	1600	2300		
External Static Pressure		Pa	150	200	200	250		
Drain Connection		inch	3/4"					
Unit Dimension		H x W x D	mm	400 x 1600 x 670	485 x 1650 x 720	485 x 1900 x 720	485 x 2100 x 720	720 x 1700 x 1050
Supply Air Dimension		H x W	mm	200 x 950	221 x 882	262 x 1000	262 x 1000	341 x 862
Return Air Dimension		H x W	mm	320 x 1350	373.1 x 1450	373.1 x 1700	373.1 x 1900	588.1 x 1500
Nett Weight		kg	90	160	180	200	210	
Condenser Model No.		LDC20	LDC25	LDC30	LDC35	LDC44		
Quantity		1	1	1	1	1		
Power Supply		380 V / 3 PH / 50 Hz						
Pipe Size	Liquid - inch	1/2"	5/8"	7/8"	7/8"	7/8"		
	Gas - inch	3/4"	7/8"	1 1/8"	1 1/8"	1 1/8"		
Refrigerant Charge		kg	4.8	7.2	9.8	14.5		
Refrigerant Control Type		Capillary		Expansion Valve				
Fan Type		Axial - Direct Drive						
Fan Model No.		Ø450	ODS610D-175B4.6D.V-01	ODS660D-165B4.6D.V-01	ODS660D-165B4.6D.V-01	TFE760J-105B7.6D.V-01		
Fan Quantity		2	1	1	1	1		
Fan Diameter		2 x Ø450	Ø610	Ø660	Ø660	Ø760		
Fan Motor Model No.		KDHK-0.060kW	YFK80X-6-0.37kW	YFK80X-6-0.55kW	YFK80X-6-0.55kW	YFK112X-6-1.8kW		
Fan Motor Quantity		2	1	1	1	1		
Fan Motor Starting Current		A	2.1	8.4	11.9	31.5		
Fan Motor Running Current		A	0.3	1.2	1.7	4.5		
Fan Motor Output Power		kW	0.060 x 2	0.37	0.55	1.8		
Compressor Type		Scroll Compressor						
Compressor Make		SANYO	SANYO	SANYO	SANYO	COPELAND		
Compressor Model No.		C-SBN523H8D	C-SCP315H38A	C-SCP360H38A	C-SCP400H38A	VP182KSE-TFP		
Compressor Starting Current		A	63	96	96	174		
Compressor Running Current		A	11.6	14.9	16.9	25.7		
Compressor Output Power		kW	6.75	8.6	9.9	13.3		
Unit Dimension		H x W x D	mm	1230 x 950 x 340	1070 x 770 x 770	1144 x 870 x 870	1144 x 870 x 870	1180 x 900 x 900
Nett Weight		kg	122	210	270	270	320	



SPECIFICATIONS



LARGE DUCTED SPLIT R410A TWIN CONDENSING UNITS

Evaporator Model No.		LDE502		LDE602		LDE702		LDE882	
		Total Cooling Capacity	kW	51.8		59.5		65	
	Btu/h	176742		203014		221780		299232	
Sensible Cooling Capacity		kW		47.8		53.6		66	
		Btu/h		137845		163094		182883	
Total Heating Capacity		kW		62.8		68.2		94.4	
		Btu/h		191754		214274		232698	
Belt Drive Motor									
Fan Type		SYT12-9L2		SYT12-12L2		SYT12-12L2		SYT15-11L2	
Fan Model No.		SYT12-9L2		SYT12-12L2		SYT12-12L2		SYT15-11L2	
Power Supply		380 V / 3 PH / 50 Hz							
Fan Motor Model No.		Y100L1-4(2.2kW-4)		Y100L2-4(3kW-4)		Y112M-4(4kW-4)		Y112M-4(4kW-4)	
Fan Motor Quantity		1		1		1		1	
Fan Motor Starting Current		A		29.2		39		39	
Fan Motor Running Current		A		5.8		7.8		7.8	
Fan Motor Output Power / Pole		kW / Pole		3kW-4P		4kW-4P		4kW-4P	
Airflow		l/s		2700		3300		4200	
External Static Pressure		Pa		250		250		250	
Drain Connection		inch		3/4"		3/4"		3/4"	
Unit Dimension		H x W x D		mm		800 x 1700 x 1050		800 x 1950 x 1050	
Supply Air Dimension		H x W		mm		341 x 862		341 x 1114	
Return Air Dimension		H x W		mm		668.1 x 1500		718.1 x 1850	
Nett Weight		kg		230		250		260	
Condenser Data									
Condenser Model No.		LDC25		LDC30		LDC35		LDC44	
Quantity		1		1		1		1	
Power Supply		380 V / 3 PH / 50 Hz							
Pipe Size		Liquid - inch		5/8"		7/8"		7/8"	
		Gas - inch		7/8"		1 1/8"		1 1/8"	
Refrigerant Charge		kg		7.2		9.8		14.5	
Refrigerant Control Type		Expansion Valve							
Fan Type		Axial - Direct Drive							
Fan Model No.		ODS610D-175B4.6D.V-01		ODS660D-165B4.6D.V-01		ODS660D-165B4.6D.V-01		TFE760J-105B7.6D.V-01	
Fan Quantity		1		1		1		1	
Fan Diameter		Ø610		Ø610		Ø660		Ø760	
Fan Motor Model No.		YFK80X-6-0.37kW		YFK80X-6-0.55kW		YFK80X-6-0.55kW		YFK112X-6-1.8kW	
Fan Motor Quantity		1		1		1		1	
Fan Motor Starting Current		A		8.4		11.9		31.5	
Fan Motor Running Current		A		1.2		1.7		4.5	
Fan Motor Output Power		kW		0.37		0.55		1.8	
Compressor Type		Scroll Compressor							
Compressor Make		SANYO							
Compressor Model No.		C-SCP315H38A		C-SCP360H38A		C-SCP400H38A		C-SCP360H38A	
Compressor Starting Current		A		96		96		174	
Compressor Running Current		A		14.9		16.9		25.7	
Compressor Output Power		kW		8.6		10.9		13.3	
Unit Dimension		H x W x D		mm		1070 x 770 x 770		1144 x 870 x 870	
Nett Weight		kg		210		270		320	



LARGE DUCTED SPLIT

LDE20 / LDC20

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	18.9	Number of Compressors	1
Sensible Cooling Capacity (kW)*	14.9	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	20.3	Normal Max. Current (Amps)	20.99
Nominal Evaporator Air Flow (l/s)	1111	Power Input (kW)	17.98
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 1111 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.02	1.03
Sensible Cooling	0.89	0.95	1.00	1.05	1.09

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	17.4	19.2	21.7	22.7	25.4

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.96	15	1.03	0	0.85
90	0.98	18	1.01	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.98	7	1
120	1.02	27	0.97	8	1

Compressor	
Number Per Unit	1
Type	Scroll
Normal Max Current (Amps / Phase)	11.1 / 3
Locked Rotor Current (Amps / Phase)	55.5 / 3

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	0.48
Air Quantity (l/s)	1111

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Direct
Motor Voltage / Phase / Hertz	380 V / 3 Phase / 50 Hz
Motor Power (kW)	0.55
Maximum Fan Speed (rpm)	1200

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	1.05

Condenser Fan	
Number of Fans	2
Type	Axial
Drive	Direct
Motor kW / rpm	0.12 / 940
Motor Voltage / Phase / Hertz	380 V / 3 Phase / 50 Hz

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	5.67
Expansion Control - In / Outdoor unit	TX Valve Electronic Expansion Valve (Optional)

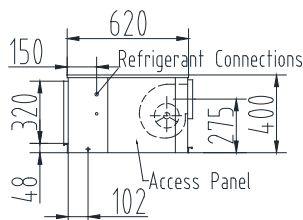
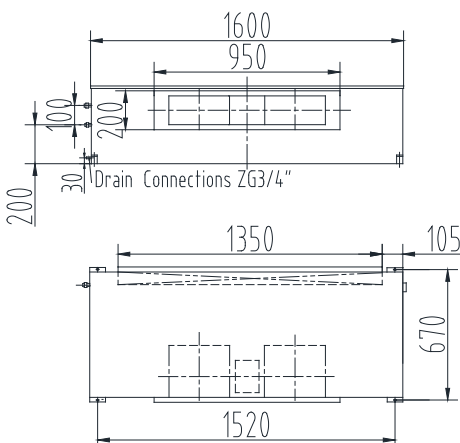
Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	



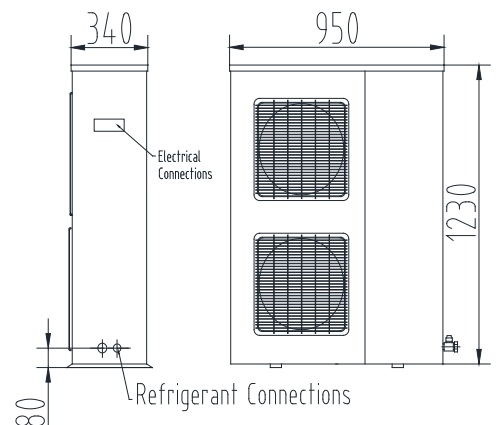
PERFORMANCE DATA LDC20 / LDE20

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	19.0	11.5	11.7	18.0	11.0	12.0	16.9	10.6	12.4	16.4	10.4	12.5
	18	19.6	10.4	12.8	18.5	9.9	13.1	17.3	9.5	13.4	16.9	9.3	13.6
	19	20.1	9.3	13.8	19.0	8.9	14.2	17.8	8.4	14.5	17.3	8.2	14.6
	20	20.6	8.2	14.9	19.5	7.7	15.2	18.3	7.3	15.5	17.8	7.1	15.7
23	17	19.0	13.5	11.7	17.9	13.0	12.0	16.8	12.6	12.3	16.4	12.4	12.4
	18	19.5	12.4	12.7	18.4	12.0	13.0	17.3	11.5	13.4	16.8	11.3	13.5
	19	20.1	11.3	13.8	18.9	10.9	14.1	17.8	10.4	14.4	17.3	10.2	14.6
	20	20.6	10.2	14.9	19.5	9.8	15.2	18.3	9.3	15.5	17.8	9.1	15.6
25	17	19.0	15.5	11.6	17.9	15.0	11.9	16.8	14.6	12.3	16.4	14.4	12.4
	18	19.5	14.4	12.7	18.4	14.0	13.0	17.3	13.5	13.3	16.8	13.3	13.5
	19	20.0	13.3	13.7	18.9	12.9	14.1	17.7	12.4	14.4	17.3	12.2	14.5
	20	20.6	12.2	14.8	19.4	11.8	15.1	18.2	11.3	15.5	17.8	11.1	15.6
27	17	18.9	17.5	11.6	17.9	17.0	11.9	16.8	16.5	12.2	16.3	16.3	12.4
	18	19.5	16.4	12.6	18.4	15.9	12.9	17.2	15.5	13.3	16.8	15.3	13.4
	19	20.0	15.3	13.7	18.9	14.9	14.0	17.7	14.4	14.3	17.2	14.2	14.5
	20	20.5	14.2	14.8	19.4	13.8	15.1	18.2	13.3	15.4	17.7	13.1	15.5
29	17	18.9	18.9	11.5	17.9	17.9	11.8	16.8	16.8	12.2	16.3	16.3	12.3
	18	19.4	18.3	12.6	18.4	17.9	12.9	17.2	17.2	13.2	16.8	16.8	13.4
	19	20.0	17.3	13.6	18.8	16.8	14.0	17.7	16.3	14.3	17.2	16.2	14.4
	20	20.5	16.2	14.7	19.4	15.7	15.0	18.2	15.3	15.4	17.7	15.1	15.5
31	17	18.9	18.9	11.5	17.8	17.8	11.8	16.7	16.7	12.2	16.3	16.3	12.3
	18	19.4	19.4	12.5	18.3	18.3	12.9	17.2	17.2	13.2	16.7	16.7	13.3
	19	19.9	19.2	13.6	18.8	18.7	13.9	17.7	17.7	14.3	17.2	17.2	14.4
	20	20.5	18.1	14.7	19.3	17.7	15.0	18.2	17.2	15.3	17.7	17.0	15.5

LDE 20



LDC 20



LARGE DUCTED SPLIT

LDE25 / LDC25

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	25.7	Number of Compressors	1
Sensible Cooling Capacity (kW)*	19.7	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	28.1	Normal Max. Current (Amps)	23.00
Nominal Evaporator Air Flow (l/s)	1305	Power Input (kW)	27.81
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 1305 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.02	1.03
Sensible Cooling	0.90	0.95	1.00	1.05	1.10

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	24.4	26.5	28.7	31.1	35

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.02	0	0.85
90	0.99	18	1.01	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.99	7	1
120	1.02	27	0.98	8	1

Compressor	
Number Per Unit	1
Type	Scroll
Normal Max Current (Amps / Phase)	14 / 3
Locked Rotor Current (Amps / Phase)	70 / 3

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	0.59
Air Quantity (l/s)	1305

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Direct
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	0.37
Maximum Fan Speed (rpm)	1200

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	1.65

Condenser Fan	
Number of Fans	1
Type	Axial
Drive	Direct
Motor kW / rpm	0.37 / 940
Motor Voltage / Phase / Hertz	380 / 3 / 50

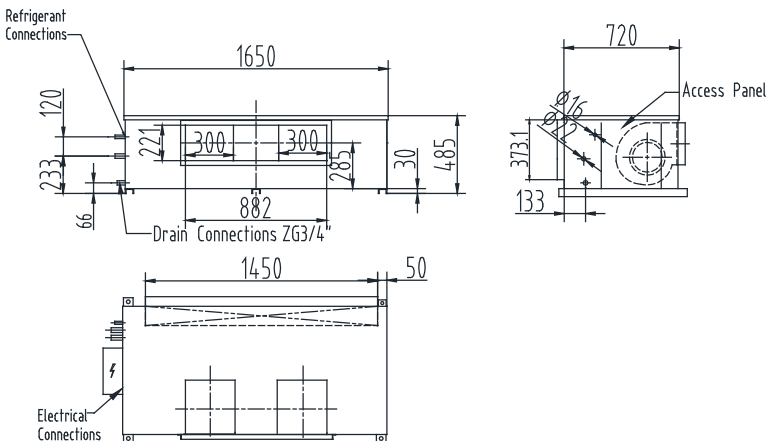
Refrigeration System	
Refrigerant type	R410A
Charge (kg)	7.71
TX Valve	
Expansion Control - In / Outdoor unit	Electronic Expansion Valve (Optional)

Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	

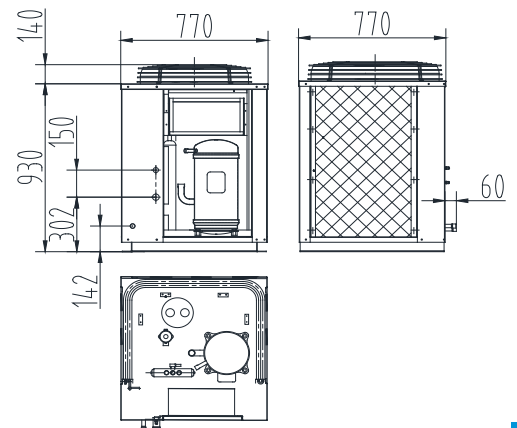


PERFORMANCE DATA LDC25 / LDE25													
INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	25.6	15.3	10.8	24.5	14.9	11.1	23.4	14.3	11.4	22.9	14.1	11.6
	18	26.3	13.9	11.9	25.2	13.4	12.2	24.0	12.9	12.5	23.5	12.7	12.6
	19	27.0	12.5	13.0	25.8	12.0	13.3	24.6	11.5	13.6	24.1	11.3	13.7
	20	27.7	11.0	14.1	26.5	10.5	14.4	25.2	10.0	14.7	24.7	9.8	14.8
23	17	25.6	17.9	10.8	24.5	17.5	11.1	23.4	16.9	11.4	22.9	16.7	11.5
	18	26.3	16.5	11.9	25.1	16.0	12.2	24.0	15.5	12.5	23.5	15.3	12.6
	19	27.0	15.1	13.0	25.8	14.6	13.3	24.6	14.1	13.6	24.1	13.9	13.7
	20	27.7	13.6	14.1	26.5	13.2	14.3	25.2	12.7	14.6	24.7	12.5	14.8
25	17	25.6	20.5	10.7	24.5	20.0	11.0	23.3	19.5	11.3	22.9	19.3	11.5
	18	26.2	19.1	11.8	25.1	18.6	12.1	23.9	18.7	12.4	23.4	17.9	12.5
	19	26.9	17.7	12.9	25.7	17.2	13.2	24.5	16.7	13.5	24.0	16.5	13.6
	20	27.6	16.2	14.0	26.4	15.8	14.3	25.2	15.3	14.6	24.6	15.1	14.7
27	17	25.5	23.0	10.7	24.4	22.5	11.0	23.3	22.0	11.3	22.8	21.8	11.4
	18	26.2	21.6	11.7	25.1	21.2	12.0	23.9	20.6	12.4	23.4	20.4	12.5
	19	26.9	20.2	12.8	25.7	19.7	13.1	24.5	19.2	13.4	24.0	19.0	13.6
	20	27.6	18.8	13.9	26.4	18.3	14.2	25.1	17.8	14.5	24.6	17.6	14.7
29	17	25.5	25.5	10.6	24.4	24.4	10.9	23.3	23.3	11.2	22.8	22.8	11.4
	18	26.2	24.2	11.7	25.0	23.7	12.0	23.9	23.2	12.3	23.4	23.0	12.4
	19	26.9	22.8	12.8	25.7	22.3	13.1	24.5	21.8	13.4	24.0	21.6	13.5
	20	27.5	21.3	13.9	26.3	20.9	14.2	25.1	20.4	14.5	24.6	20.2	14.6
31	17	25.4	25.4	10.6	24.3	24.3	10.9	23.2	23.2	11.2	22.8	22.8	11.3
	18	26.1	26.1	11.6	25.0	25.0	11.9	23.8	23.8	12.3	23.3	23.3	12.4
	19	26.8	25.3	12.7	25.6	24.8	13.0	24.4	24.3	13.3	23.9	23.9	13.5
	20	27.5	23.9	13.8	26.3	23.4	14.1	25.1	22.9	14.4	24.5	22.7	14.6

LDE 25



LDC 25



LARGE DUCTED SPLIT LDE30 / LDC30

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	29.5	Number of Compressors	1
Sensible Cooling Capacity (kW)*	23.3	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	31.4	Normal Max. Current (Amps)	32.35
Nominal Evaporator Air Flow (l/s)	1600	Power Input (kW)	28.4
*Entering air @ 27/19 °C (DB/WB) and ambient 35 °C		**Entering air @ 21 °C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 1600 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.01	1.03
Sensible Cooling	0.89	0.95	1.00	1.05	1.10

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	0.59
Air Quantity (l/s)	1600

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	26	27.7	32.6	34.1	38.8

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Direct
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	0.55 x 2
Maximum Fan Speed (rpm)	1200

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.02	0	0.85
90	0.99	18	1.01	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.99	7	1
120	1.02	27	0.98	8	1

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	1.65

Compressor	
Number Per Unit	1
Type	Scroll
Normal Max Current (Amps / Phase)	16.3 / 3
Locked Rotor Current (Amps / Phase)	81.5 / 3

Condenser Fan	
Number of Fans	1
Type	Axial
Drive	Direct
Motor kW / rpm	0.55 / 940
Motor Voltage / Phase / Hertz	380 / 3 / 50

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	8.85
Expansion Control - In / Outdoor unit	TX Valve
	Electronic Expansion Valve (Optional)

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

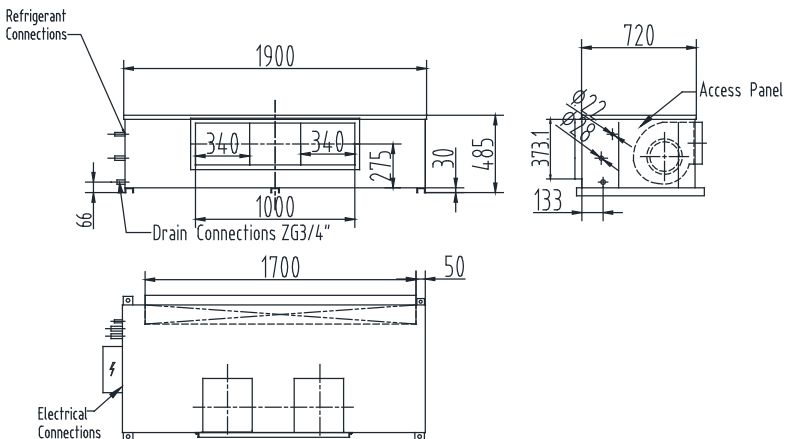
Optional Features
Fire Alarm Cut-Off Switch
Electronic Expansion Valve
Highly Flexible Control Ability
Supply Air Variable Speed Drive



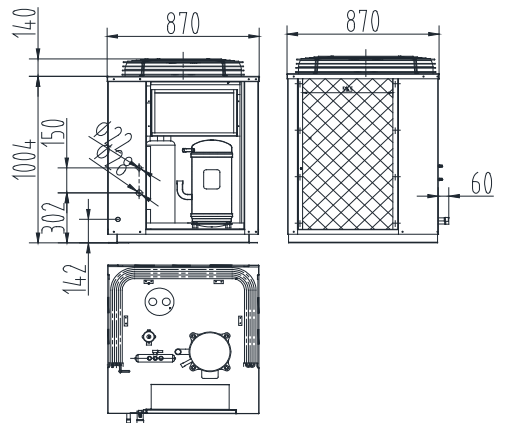
PERFORMANCE DATA LDC30 / LDE30

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	29.4	17.9	11.3	28.1	17.3	11.5	26.8	16.7	11.8	26.2	16.5	12.0
	18	30.2	16.2	12.4	28.9	15.6	12.6	27.4	15.0	12.9	26.9	14.8	13.0
	19	31.0	14.4	13.4	29.6	13.8	13.7	28.2	13.2	14.0	27.6	13.0	14.1
	20	31.8	12.6	14.5	30.4	12.1	14.8	28.9	11.5	15.1	28.2	11.2	15.2
23	17	29.4	21.1	11.2	28.1	20.5	11.5	26.7	19.9	11.8	26.2	19.7	11.9
	18	30.2	19.3	12.3	28.8	18.8	12.6	27.4	18.2	12.9	26.8	17.9	13.0
	19	31.0	17.6	13.4	29.6	17.0	13.7	28.1	16.4	13.9	27.5	16.2	14.1
	20	31.8	15.8	14.5	30.3	15.3	14.8	28.8	14.7	15.0	28.2	14.5	15.2
25	17	29.4	24.2	11.2	28.1	23.6	11.4	26.7	23.0	11.7	26.2	22.8	11.9
	18	30.1	22.5	12.2	28.8	21.9	12.5	27.4	21.3	12.8	26.8	21.1	12.9
	19	30.9	20.8	13.3	29.5	20.2	13.6	28.1	19.6	13.9	27.5	19.4	14.0
	20	31.7	19.0	14.4	30.3	18.4	14.7	28.8	17.9	15.0	28.2	17.6	15.1
27	17	29.3	27.3	11.1	28.0	26.7	11.4	26.7	26.1	11.7	26.1	25.9	11.8
	18	30.1	25.6	12.2	28.7	25.0	12.5	27.3	24.4	12.8	26.8	24.2	12.9
	19	30.9	23.9	13.3	29.5	23.3	13.6	28.0	22.7	13.8	27.4	22.5	14.0
	20	31.7	22.1	14.4	30.2	21.6	14.6	28.7	21.0	14.9	28.1	20.8	15.1
29	17	29.3	29.3	11.1	28.0	28.0	11.3	26.6	26.6	11.6	26.1	26.1	11.8
	18	30.0	28.7	12.1	28.7	28.1	12.4	27.3	27.3	12.7	26.7	26.7	12.8
	19	30.8	27.0	13.2	29.4	26.4	13.5	28.0	25.8	13.8	27.4	25.6	13.9
	20	31.6	25.2	14.3	30.2	24.7	14.6	28.7	24.1	14.9	28.1	23.9	15.0
31	17	29.2	29.2	11.0	27.9	27.9	11.3	26.6	26.6	11.6	26.0	26.0	11.7
	18	30.0	30.0	12.1	28.7	28.7	12.4	27.3	27.3	12.7	26.7	26.7	12.8
	19	30.8	30.0	13.2	29.4	29.4	13.5	28.0	28.0	13.8	27.4	27.4	13.9
	20	31.6	28.3	14.3	30.1	27.7	14.5	28.7	27.2	14.8	28.1	26.9	15.0

LDE 30



LDC 30



LARGE DUCTED SPLIT

LDE35 / LDC35

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	32.6	Number of Compressors	1
Sensible Cooling Capacity (kW)*	27.2	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	34.1	Normal Max. Current (Amps)	34.45
Nominal Evaporator Air Flow (l/s)	2000	Power Input (kW)	30.2
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 2000 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.01	1.02
Sensible Cooling	0.89	0.95	1.00	1.06	1.11

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	28.8	30.9	34.9	37.8	42.5

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.02	0	0.85
90	0.99	18	1.01	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.99	7	1
120	1.02	27	0.98	8	1

Compressor	
Number Per Unit	1
Type	Scroll
Normal Max Current (Amps / Phase)	18.1 / 3
Locked Rotor Current (Amps / Phase)	90.5 / 3

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	0.78
Air Quantity (l/s)	2000

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Direct
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	0.55 x 1
Maximum Fan Speed (rpm)	1200

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	1.65

Condenser Fan	
Number of Fans	1
Type	Axial
Drive	Direct
Motor kW / rpm	0.55 / 940
Motor Voltage / Phase / Hertz	380 / 3 / 50

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	9.78
Expansion Control - In / Outdoor unit	TX Valve
	Electronic Expansion Valve (Optional)

Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	

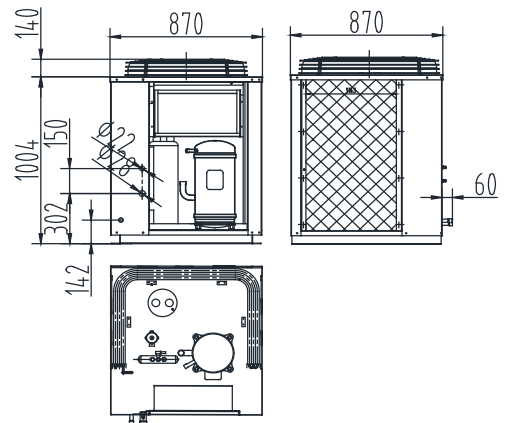
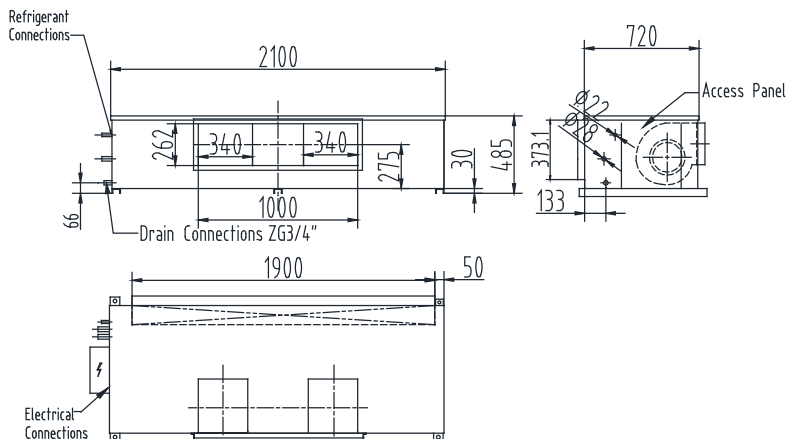


PERFORMANCE DATA LDC35 - LDE35

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	32.7	20.5	12.0	31.1	19.8	12.2	29.5	19.2	12.5	29.1	19.0	12.6
	18	33.5	18.3	13.1	31.9	17.7	13.3	30.3	17.0	13.6	29.9	16.9	13.6
	19	34.3	16.2	14.1	32.7	15.5	14.4	31.0	14.9	14.6	30.8	14.8	14.7
	20	35.2	14.0	15.2	33.5	13.4	15.5	31.8	12.7	15.7	31.7	12.7	15.7
23	17	32.6	24.4	11.9	31.1	23.7	12.2	29.5	23.1	12.4	29.0	22.9	12.5
	18	33.4	22.3	13.0	31.9	21.6	13.3	30.2	20.9	13.5	29.9	20.8	13.6
	19	34.3	20.1	14.1	32.7	19.5	14.3	31.0	18.8	14.6	30.8	18.7	14.6
	20	35.2	18.0	15.2	33.5	17.3	15.4	31.7	16.7	15.7	31.6	16.6	15.7
25	17	32.6	28.3	11.9	31.0	27.6	12.1	29.5	26.9	12.4	29.0	26.7	12.5
	18	33.4	26.1	13.0	31.8	25.5	13.2	30.2	24.8	13.5	29.8	24.7	13.5
	19	34.3	24.0	14.0	32.6	23.4	14.3	30.9	22.7	14.5	30.7	22.6	14.6
	20	35.1	21.9	15.1	33.4	21.2	15.4	31.7	20.6	15.6	31.6	20.5	15.6
27	17	32.5	32.1	11.8	31.0	31.0	12.1	29.4	29.4	12.4	28.9	28.9	12.4
	18	33.3	30.0	12.9	31.8	29.3	13.2	30.2	28.7	13.4	29.8	28.5	13.5
	19	34.2	27.9	14.0	32.6	27.2	14.2	30.9	26.6	14.5	30.7	26.5	14.5
	20	35.1	25.8	15.1	33.4	25.1	15.3	31.6	24.4	15.6	31.5	24.4	15.6
29	17	32.5	32.5	11.8	31.0	31.0	12.1	29.4	29.4	12.3	28.9	28.9	12.4
	18	33.3	33.3	12.9	31.7	31.7	13.1	30.1	30.1	13.4	29.8	29.8	13.4
	19	34.2	31.7	13.9	32.5	31.0	14.2	30.9	30.4	14.5	30.6	30.3	14.5
	20	35.0	29.6	15.0	33.3	28.9	15.3	31.6	28.3	15.5	31.5	28.2	15.6
31	17	32.4	32.4	11.8	29.7	29.7	12.2	29.2	29.2	12.3	28.8	28.8	12.4
	18	33.3	33.3	12.8	31.7	31.7	13.1	30.1	30.1	13.4	29.7	29.7	13.4
	19	34.1	34.1	13.9	32.5	32.5	14.2	30.8	30.8	14.4	30.6	30.6	14.5
	20	35.0	33.4	15.0	33.3	32.7	15.2	31.6	31.6	15.5	31.4	31.4	15.5

LDE 35

LDC 35



LARGE DUCTED SPLIT

LDE44 / LDC44

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	44.7	Number of Compressors	1
Sensible Cooling Capacity (kW)*	34.8	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	47.2	Normal Max. Current (Amps)	50.47
Nominal Evaporator Air Flow (l/s)	2300	Power Input (kW)	31.8
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 2300 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.02	1.03
Sensible Cooling	0.90	0.95	1.00	1.05	1.10

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	40.9	43.7	48.2	52	58

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.05	0	0.85
90	0.99	18	1.03	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.98	7	1
120	1.03	27	0.96	8	1

Compressor	
Number Per Unit	1
Type	Scroll
Normal Max Current (Amps / Phase)	22.5 / 3
Locked Rotor Current (Amps / Phase)	112.5 / 3

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	0.95
Air Quantity (l/s)	2300

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Pulley Driven
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	2.2
Maximum Fan Speed (rpm)	1200

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	1.86

Condenser Fan	
Number of Fans	1
Type	Axial
Drive	Direct
Motor kW / rpm	1.8 / 940
Motor Voltage / Phase / Hertz	380 / 3 / 50

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	13.40
Expansion Control - In / Outdoor unit	TX Valve
	Electronic Expansion Valve (Optional)

Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	

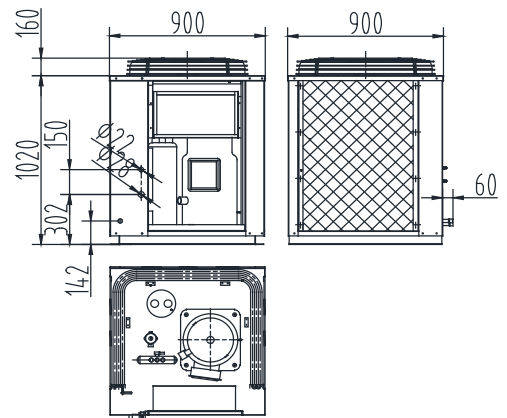
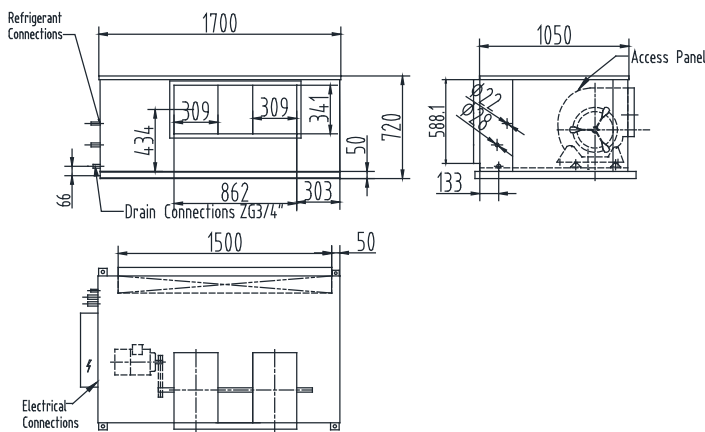


PERFORMANCE DATA LDC44 - LDE44

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	45.4	27.3	10.8	42.7	26.1	11.2	39.9	24.8	11.6	38.8	24.4	11.8
	18	46.6	24.7	11.9	43.8	23.5	12.3	41.0	22.3	12.7	39.8	21.8	12.9
	19	47.8	22.1	13.0	44.9	20.9	13.4	42.0	19.7	13.8	40.9	19.3	13.9
	20	49.0	19.5	14.1	46.1	18.3	14.5	43.1	17.1	14.9	41.9	16.7	15.0
23	17	45.3	31.9	10.7	42.6	30.7	11.2	39.9	29.5	11.6	38.8	29.0	11.7
	18	46.5	29.4	11.8	43.8	28.2	12.2	40.9	27.0	12.7	39.8	26.5	12.8
	19	47.7	26.8	12.9	44.9	25.6	13.3	42.0	24.4	13.7	40.8	24.0	13.9
	20	48.9	24.2	14.0	46.0	23.0	14.4	43.0	21.9	14.8	41.8	21.4	15.0
25	17	45.3	36.5	10.7	42.6	35.5	11.1	39.8	34.1	11.5	38.7	33.6	11.7
	18	46.5	34.0	11.8	43.7	32.8	12.2	40.9	31.6	12.6	39.7	31.1	12.8
	19	47.7	31.4	12.9	44.8	30.2	13.3	41.9	29.1	13.7	40.7	28.6	13.8
	20	48.9	28.8	14.0	46.0	27.7	14.4	43.0	26.5	14.8	41.8	26.0	14.9
27	17	45.2	41.0	10.6	42.5	39.8	11.0	39.8	38.6	11.5	38.6	38.1	11.6
	18	46.4	38.5	11.7	43.6	37.3	12.1	40.8	36.1	12.5	39.6	35.7	12.7
	19	47.6	36.0	12.8	44.7	34.8	13.2	41.9	33.6	13.6	40.7	33.2	13.8
	20	48.8	33.4	13.9	45.9	32.3	14.3	42.9	31.1	14.7	41.7	30.7	14.9
29	17	45.1	45.1	10.6	42.5	42.5	11.0	39.7	39.7	11.4	38.6	38.6	11.6
	18	46.3	43.0	11.7	43.6	41.8	12.1	40.7	40.6	12.5	39.6	39.6	12.7
	19	47.5	40.5	12.8	44.7	39.3	13.2	41.8	38.2	13.6	40.6	37.7	13.7
	20	48.7	38.0	13.9	45.8	36.8	14.3	42.9	35.7	14.7	41.7	35.2	14.8
31	17	45.1	45.1	10.5	42.4	42.4	11.0	39.7	39.7	11.4	38.5	38.5	11.6
	18	46.2	46.2	11.6	43.5	43.5	12.0	40.7	40.7	12.5	39.5	39.5	12.6
	19	47.4	45.0	12.7	44.6	43.8	13.1	41.7	41.7	13.5	40.6	40.6	13.7
	20	48.6	42.5	13.8	45.8	41.3	14.2	42.8	40.2	14.6	41.6	39.7	14.8

LDE 44

LDC 44



LARGE DUCTED SPLIT

LDE502 / LDC25-25

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	51.8	Number of Compressors	2
Sensible Cooling Capacity (kW)*	40.4	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	56.2	Normal Max. Current (Amps)	56.34
Nominal Evaporator Air Flow (l/s)	2700	Power Input (kW)	35.2
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 2700 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.02	1.03
Sensible Cooling	0.90	0.95	1.00	1.05	1.10

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	1.07
Air Quantity (l/s)	2700

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	48.8	53.0	57.4	62.2	70.0

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Pulley Driven
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	2.2
Maximum Fan Speed (rpm)	1200

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.02	0	0.85
90	0.99	18	1.01	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.99	7	1
120	1.02	27	0.98	8	1

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	3.29

Compressor	
Number Per Unit	2
Type	Scroll
Normal Max Current (Amps / Phase)	14 / 3 x 1
Locked Rotor Current (Amps / Phase)	70 / 3 x 1

Condenser Fan	
Number of Fans	2
Type	Axial
Drive	Direct
Motor kW / rpm	0.37 x 1
Motor Voltage / Phase / Hertz	380 / 3 / 50

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	15.53
Expansion Control - In / Outdoor unit	TX Valve
	Electronic Expansion Valve (Optional)

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

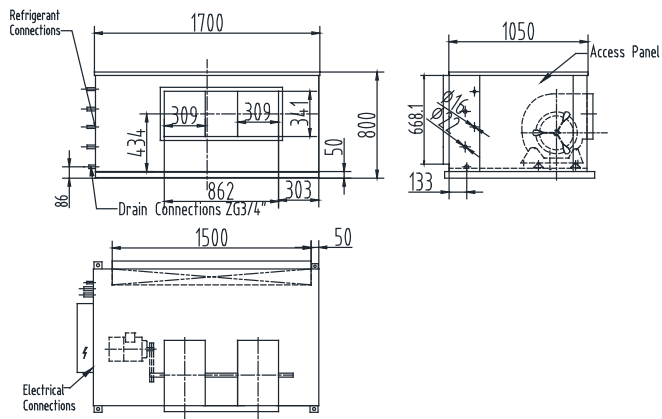
Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	



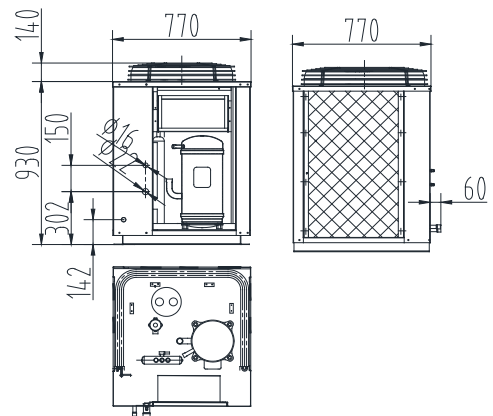
PERFORMANCE DATA LDC25&LDC25 / LDE502

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	51.6	31.2	11.0	49.4	30.2	11.3	47.1	29.2	11.6	46.1	28.8	11.7
	18	53.0	28.2	12.1	50.7	27.2	12.4	48.3	26.2	12.7	47.3	25.8	12.8
	19	54.4	25.2	13.2	52.0	24.2	13.5	49.5	23.2	13.8	48.5	22.8	13.9
	20	55.8	22.2	14.3	53.4	21.2	14.6	50.8	20.2	14.9	49.7	19.8	15.0
23	17	51.5	36.6	11.0	49.3	35.6	11.3	47.0	34.6	11.5	46.0	34.2	11.7
	18	52.9	33.7	12.0	50.6	32.7	12.3	48.2	31.7	12.6	47.2	31.2	12.8
	19	54.3	30.7	13.1	51.9	29.7	13.4	49.4	28.7	13.7	48.4	28.3	13.8
	20	55.8	27.7	14.2	53.3	26.7	14.5	50.7	25.7	14.8	49.7	25.3	14.9
25	17	51.5	42.0	10.9	49.2	41.0	11.2	46.9	40.0	11.5	46.0	39.6	11.6
	18	52.9	39.1	12.0	50.5	38.1	12.3	48.1	37.0	12.6	47.1	36.6	12.7
	19	54.2	36.1	13.1	51.8	35.1	13.4	49.4	34.1	13.7	48.4	33.7	13.8
	20	55.7	33.1	14.2	53.2	32.1	14.5	50.7	31.1	14.7	49.6	30.7	14.9
27	17	51.4	47.3	10.9	49.2	46.3	11.1	46.9	45.3	11.4	45.9	44.9	11.6
	18	52.8	44.4	11.9	50.5	43.4	12.2	48.1	42.4	12.5	47.1	42.0	12.6
	19	54.2	41.4	13.0	51.8	40.4	13.3	49.3	39.4	13.6	48.3	39.0	13.7
	20	55.6	38.5	14.1	53.1	37.5	14.4	50.6	36.5	14.7	49.5	36.1	14.8
29	17	51.3	51.3	10.8	49.1	49.1	11.1	46.8	46.8	11.4	45.9	45.9	11.5
	18	52.7	49.6	11.9	50.4	48.6	12.2	48.0	47.6	12.5	47.0	47.0	12.6
	19	54.1	46.7	13.0	51.7	45.7	13.3	49.2	44.7	13.6	48.2	44.3	13.7
	20	55.5	43.8	14.1	53.0	42.8	14.3	50.5	41.8	14.6	49.5	41.4	14.8
31	17	51.2	51.2	10.8	49.0	49.0	11.1	46.7	46.7	11.4	45.8	45.8	11.5
	18	52.6	52.6	11.8	50.3	50.3	12.1	47.9	47.9	12.4	47.0	47.0	12.6
	19	54.0	51.9	12.9	51.6	50.9	13.2	49.2	49.2	13.5	48.2	48.2	13.6
	20	55.4	49.0	14.0	53.0	48.0	14.3	50.4	47.1	14.6	49.4	46.7	14.7

LDE 502



LDC 25-25



Please note: This Indoor Unit uses 2 Condensers

LARGE DUCTED SPLIT

LDE602 / LDC30-30

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	59.5	Number of Compressors	2
Sensible Cooling Capacity (kW)*	47.8	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	62.8	Normal Max. Current (Amps)	65.5
Nominal Evaporator Air Flow (l/s)	3300	Power Input (kW)	42.8
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 3300 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.02	1.03
Sensible Cooling	0.89	0.95	1.00	1.05	1.10

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	52.0	55.4	65.2	68.2	77.6

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.02	0	0.85
90	0.99	18	1.01	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.99	7	1
120	1.02	27	0.98	8	1

Compressor	
Number Per Unit	2
Type	Scroll
Normal Max Current (Amps / Phase)	16.3 / 3 x 1
Locked Rotor Current (Amps / Phase)	81.5 / 3 x 1

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	1.246
Air Quantity (l/s)	3300

Evaporator Fan	
Number of Fans	1
Type	Centrifugal
Drive	Pulley Driven
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	3
Maximum Fan Speed (rpm)	1200

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	3.294

Condenser Fan	
Number of Fans	2
Type	Axial
Drive	Direct
Motor kW / rpm	055 / 940
Motor Voltage / Phase / Hertz	380 / 3 / 50

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	17.84
Expansion Control - In / Outdoor unit	TX Valve
	Electronic Expansion Valve (Optional)

Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	

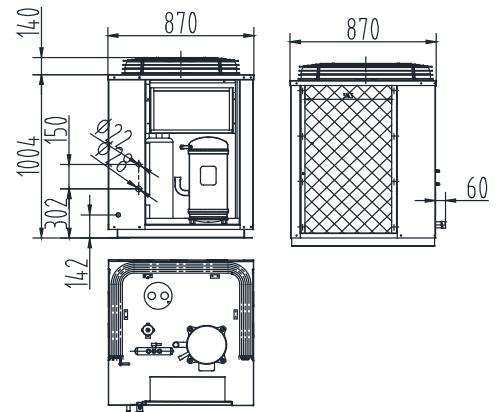
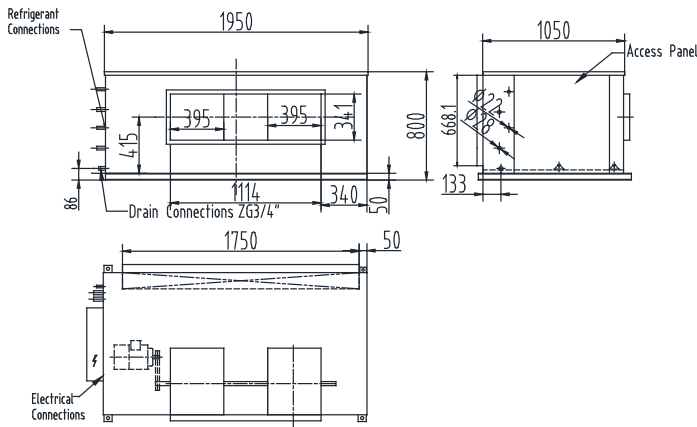


PERFORMANCE DATA LDC30&LDC30 / LDE602

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	59.5	36.5	11.4	56.8	35.3	11.7	54.1	34.1	12.0	52.9	33.6	12.1
	18	61.1	32.9	12.5	58.3	31.7	12.8	55.4	30.5	13.0	54.3	30.0	13.1
	19	62.6	29.2	13.6	59.8	28.1	13.8	56.8	26.9	14.1	55.6	26.4	14.2
	20	64.3	25.6	14.6	61.3	24.4	14.9	58.3	23.2	15.2	57.0	22.7	15.3
23	17	59.4	43.1	11.3	56.8	41.9	11.6	54.0	40.7	11.9	52.9	40.2	12.0
	18	61.0	39.5	12.4	58.2	38.3	12.7	55.3	37.1	13.0	54.2	36.7	13.1
	19	62.5	35.9	13.5	59.7	34.7	13.8	56.8	33.5	14.1	55.6	33.1	14.2
	20	64.2	32.2	14.6	61.3	31.1	14.9	58.2	29.9	15.2	56.9	29.4	15.3
25	17	59.3	49.6	11.3	56.7	48.4	11.6	53.9	47.3	11.9	52.8	46.8	12.0
	18	60.9	46.0	12.4	58.1	44.9	12.6	55.3	43.7	12.9	54.1	43.2	13.0
	19	62.5	42.4	13.5	59.6	41.3	13.7	56.7	40.1	14.0	55.5	39.6	14.1
	20	64.1	38.8	14.5	61.2	37.7	14.8	58.1	36.5	15.1	56.9	36.0	15.2
27	17	59.2	56.0	11.2	56.6	54.9	11.5	53.8	53.7	11.8	52.7	52.7	11.9
	18	60.8	52.5	12.3	58.0	51.3	12.6	55.2	50.2	12.9	54.0	49.7	13.0
	19	62.4	48.9	13.4	59.5	47.8	13.7	56.6	46.6	14.0	55.4	46.1	14.1
	20	64.0	45.4	14.5	61.1	44.2	14.8	58.0	43.0	15.0	56.8	42.6	15.2
29	17	59.2	59.2	11.2	56.5	56.5	11.5	53.8	53.8	11.8	52.6	52.6	11.9
	18	60.7	58.9	12.3	58.0	57.7	12.5	55.1	55.1	12.8	54.0	54.0	13.0
	19	62.3	55.4	13.3	59.5	54.2	13.6	56.5	53.0	13.9	55.3	52.6	14.0
	20	63.9	51.8	14.4	61.0	50.7	14.7	58.0	49.5	15.0	58.0	49.5	15.0
31	17	59.1	59.1	11.1	56.4	56.4	11.4	54.1	54.1	11.7	53.1	53.1	11.9
	18	60.6	60.6	12.2	57.9	57.9	12.5	55.0	55.0	12.8	53.9	53.9	12.9
	19	62.2	61.7	13.3	59.4	59.4	13.6	56.5	56.5	13.9	55.3	55.3	14.0
	20	63.8	58.2	14.4	60.9	57.0	14.7	57.9	55.9	14.9	56.6	55.4	15.1

LDE 602

LDC 30-30



Please note: This Indoor Unit uses 2 Condensers

LARGE DUCTED SPLIT

LDE702 / LDC35-35

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	65	Number of Compressors	2
Sensible Cooling Capacity (kW)*	53.6	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	68.2	Normal Max. Current (Amps)	36.1
Nominal Evaporator Air Flow (l/s)	3800	Power Input (kW)	24.5
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 3800 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.01	1.03
Sensible Cooling	0.89	0.95	1.00	1.05	1.10

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	57.6	61.8	69.8	75.6	85

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.02	0	0.85
90	0.99	18	1.01	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.99	7	1
120	1.02	27	0.98	8	1

Compressor	
Number Per Unit	2
Type	Scroll
Normal Max Current (Amps / Phase)	18.1 / 3 x 1
Locked Rotor Current (Amps / Phase)	90.5 / 3 x 1

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	1.41
Air Quantity (l/s)	3800

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Pulley Driven
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	2.2
Maximum Fan Speed (rpm)	1200

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m²)	3.29

Condenser Fan	
Number of Fans	1
Type	Axial
Drive	Direct
Motor kW / rpm	0.55 / 940
Motor Voltage / Phase / Hertz	380 / 3 / 50

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	19.49
Expansion Control - In / Outdoor unit	TX Valve
	Electronic Expansion Valve (Optional)

Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	

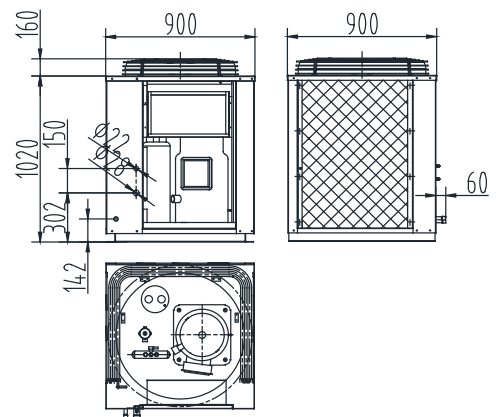
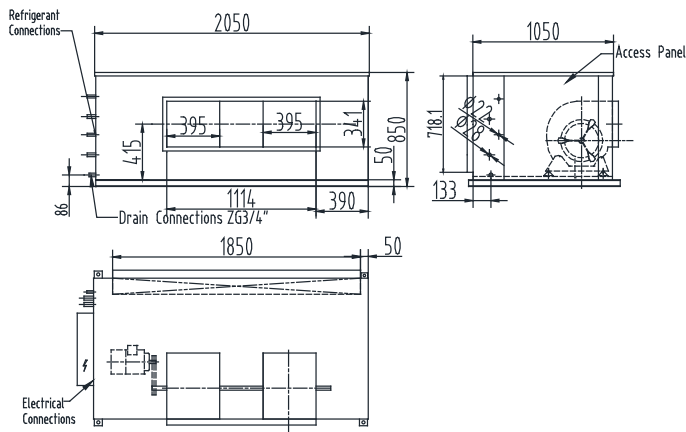


PERFORMANCE DATA LDC35&LDC35 / LDE702

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	65.1	40.5	11.7	62.1	39.2	12.0	58.9	37.9	12.3	58.4	37.6	12.3
	18	66.8	36.3	12.8	63.6	35.0	13.1	60.4	33.7	13.3	59.9	33.5	13.4
	19	68.5	32.2	13.9	65.2	30.9	14.1	61.9	29.5	14.4	61.5	29.4	14.4
	20	70.2	27.9	15.0	66.9	26.6	15.2	63.4	25.3	15.5	63.2	25.3	15.5
23	17	65.0	48.1	11.7	62.0	46.8	11.9	58.8	45.4	12.2	58.3	45.2	12.2
	18	66.7	44.0	12.7	63.5	42.7	13.0	60.3	41.3	13.3	59.8	41.1	13.3
	19	68.4	39.8	13.8	65.2	38.5	14.1	61.8	37.2	14.4	61.4	37.0	14.4
	20	70.1	35.6	14.9	66.8	34.3	15.2	63.3	33.0	15.4	63.1	32.9	15.5
25	17	64.9	55.6	11.6	61.9	54.3	11.9	58.7	53.0	12.2	58.2	52.7	12.2
	18	66.6	51.5	12.7	63.4	50.2	13.0	60.2	48.9	13.2	59.7	48.7	13.3
	19	68.3	47.4	13.8	65.1	46.1	14.0	61.7	44.8	14.3	61.3	44.6	14.3
	20	70.0	43.2	14.8	66.7	41.9	15.1	63.2	40.6	15.4	63.0	40.5	15.4
27	17	64.8	63.0	11.5	61.8	61.7	11.8	58.7	58.7	12.1	58.2	58.2	12.2
	18	66.5	58.9	12.6	63.3	57.6	12.9	60.1	56.3	13.2	59.6	56.1	13.2
	19	68.2	54.8	13.7	65.0	53.6	14.0	61.6	52.2	14.3	61.2	52.1	14.3
	20	69.9	50.7	14.8	66.6	49.4	15.1	63.1	48.1	15.3	62.9	48.1	15.4
29	17	64.7	64.7	11.5	61.7	61.7	11.8	58.6	58.6	12.1	58.1	58.1	12.1
	18	66.4	66.3	12.6	63.3	63.3	12.9	60.1	60.1	13.1	59.6	59.6	13.2
	19	68.1	62.2	13.7	64.9	60.9	13.9	61.6	59.6	14.2	61.1	59.4	14.2
	20	69.8	58.1	14.7	66.5	56.9	15.0	63.0	55.5	15.3	62.8	55.5	15.3
31	17	64.7	64.7	11.5	61.6	61.6	11.8	58.2	58.2	12.1	57.7	57.7	12.1
	18	66.3	66.3	12.5	63.2	63.2	12.8	60.0	60.0	13.1	59.5	59.5	13.2
	19	68.0	68.0	13.6	64.8	64.8	13.9	61.5	61.5	14.2	61.0	61.0	14.2
	20	69.7	65.5	14.7	66.4	64.2	15.0	63.0	62.9	15.2	62.8	62.8	15.3

LDE 702

LDC 35-35



Please note: This Indoor Unit uses 2 Condensers

LARGE DUCTED SPLIT

LDE882 / LDC44-44

TECHNICAL SPECIFICATION

Unit Capacity		Power Requirements	
Total Cooling Capacity (kW)*	87.7	Number of Compressors	2
Sensible Cooling Capacity (kW)*	66.0	Power Requirements (Volt / Phase)	380 / 3
Heating Capacity (kW)**	94.4	Normal Max. Current (Amps)	100.54
Nominal Evaporator Air Flow (l/s)	4200	Power Input (kW)	62.1
*Entering air @ 27/19 °C (DB/WB) and ambient 35°C		**Entering air @ 21°C (DB) and 7 °C ambient	

Cooling Performance Correction					
Capacity	% Rated Air Quantity - Nominal 4200 l/s				
	80	90	100	110	120
Total Cooling	0.96	0.98	1.00	1.02	1.03
Sensible Cooling	0.90	0.95	1.00	1.05	1.10

Evaporator Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	1.6909
Air Quantity (l/s)	4200

Heating Performance Data					
Outdoor Coil Entering DB temperature °C					
	0	4	8	12	18
Heating Capacity (kW)	81.8	87.4	96.4	104	116

Evaporator Fan	
Number of Fans	2
Type	Centrifugal
Drive	Pulley Driven
Motor Voltage / Phase / Hertz	380 / 3 / 50
Motor Power (kW)	4
Maximum Fan Speed (rpm)	1200

Heating Performance Correction					
% Rated Air quantity	Multiplier	Return Air Temp °C	Multiplier	Outdoor Air Temp °C	Approx Defrost Factor
80	0.98	15	1.05	0	0.85
90	0.99	18	1.03	2	0.9
100	1.00	21	1.00	4 - 6	1
110	1.01	24	0.98	7	1
120	1.03	27	0.96	8	1

Condenser Coil	
Type	Copper Tube/ Aluminium Fins
Face Area (m ²)	3.294

Compressor	
Number Per Unit	2
Type	Scroll
Normal Max Current (Amps / Phase)	22.5 / 3 x 1
Locked Rotor Current (Amps / Phase)	112.5 / 3 x 1

Condenser Fan	
Number of Fans	2
Type	Axial
Drive	Direct
Motor kW / rpm	1.8 / 940
Motor Voltage / Phase / Hertz	380 / 3 / 50

Electrical Controls and Safeties			
High Pressure Switch (Setting kPa)	4000	Defrost	
Low Pressure Switch (Setting kPa)	3200	Initiation Temperature °C	7
Indoor Fan Overload	Internal	Termination Temperature °C	Pressure Based
Outdoor Fan Overload	Internal	Min. Period between De-Ice (min)	30
Compressor Delay Timer (s)	300	Max De-Ice Period (min)	5

Refrigeration System	
Refrigerant type	R410A
Charge (kg)	26.30
Expansion Control - In / Outdoor unit	TX Valve
	Electronic Expansion Valve (Optional)

Standard Features	
Auto reset high pressure and auto reset low pressure cutouts	
Thermal Overload Protection On All Motors	Suction Line Accumulator
Compressor Crank Case Heater	Automatic De-ice System
Limit Start Timer (Anti Short Cycling)	Thermal Insulation Indoor Unit

Optional Features	
Fire Alarm Cut-Off Switch	
Electronic Expansion Valve	
Highly Flexible Control Ability	
Supply Air Variable Speed Drive	



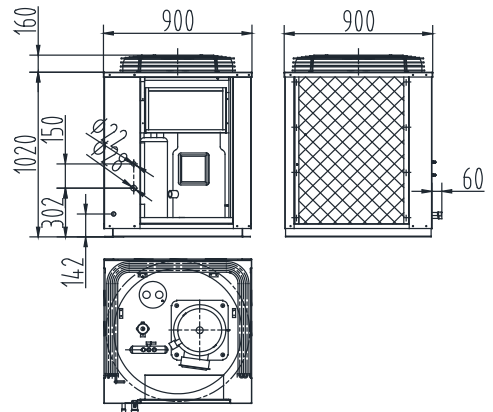
PERFORMANCE DATA LDC44&LDC44 / LDE882

INDOOR COIL ENTERING AIR TEMP °C		OUTDOOR COIL ENTERING TEMPERATURE °C											
		30 °C			35 °C			40 °C			42 °C		
DB °C	WB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C	Tot. Cap kW	Sens. Cap kW	LWB °C
21	17	88.9	52.5	10.3	83.6	50.1	10.7	78.3	47.7	11.2	76.1	46.7	11.4
	18	91.2	47.7	11.4	85.9	45.4	11.8	80.4	43.0	12.3	78.1	42.1	12.4
	19	93.6	43.0	12.5	88.1	40.7	12.9	82.4	38.3	13.4	80.1	37.4	13.5
	20	95.9	38.1	13.6	90.3	35.9	14.0	84.6	33.6	14.5	82.2	32.7	14.6
23	17	88.8	60.9	10.2	83.5	58.5	10.7	78.2	56.1	11.1	76.0	55.2	11.3
	18	91.0	56.2	11.3	85.7	53.9	11.8	80.2	51.5	12.2	78.0	50.6	12.4
	19	93.4	51.5	12.4	87.9	49.2	12.9	82.3	46.9	13.3	80.0	45.9	13.5
	20	95.8	46.8	13.5	90.2	44.5	14.0	84.4	42.2	14.4	82.1	41.3	14.6
25	17	88.6	69.3	10.2	83.4	66.9	10.6	78.1	64.5	11.1	75.9	63.5	11.3
	18	90.9	64.6	11.3	85.6	62.3	11.7	80.1	59.9	12.2	77.9	59.0	12.3
	19	93.3	59.9	12.4	87.8	57.6	12.8	82.2	55.3	13.2	79.9	54.4	13.4
	20	95.7	55.2	13.5	90.0	52.9	13.9	84.3	50.6	14.3	82.0	49.7	14.5
27	17	88.5	77.5	10.1	83.2	75.1	10.6	77.9	72.8	11.0	75.8	71.8	11.2
	18	90.7	72.9	11.2	85.5	70.6	11.7	80.0	68.2	12.1	77.8	67.3	12.3
	19	93.1	68.3	12.3	87.7	66.0	12.8	82.1	63.6	13.2	79.8	62.7	13.4
	20	95.5	63.6	13.4	89.9	61.3	13.9	84.2	59.0	14.3	81.9	58.1	14.5
29	17	88.3	85.7	10.1	83.1	83.1	10.5	77.8	77.8	11.0	75.7	75.7	11.2
	18	90.6	81.1	11.2	85.3	78.8	11.6	79.9	76.4	12.0	77.7	75.5	12.2
	19	93.0	76.5	12.3	87.5	74.2	12.7	81.9	71.9	13.1	79.7	70.9	13.3
	20	95.4	71.9	13.4	89.8	69.6	13.8	84.1	67.3	14.2	81.7	66.4	14.4
31	17	88.2	88.2	10.0	83.0	83.0	10.5	77.7	77.7	10.9	75.6	75.6	11.1
	18	90.5	89.2	11.1	85.2	85.2	11.5	79.8	79.8	12.0	77.6	77.6	12.2
	19	92.8	84.6	12.2	87.4	82.3	12.6	81.8	80.0	13.1	79.6	79.1	13.3
	20	95.2	80.0	13.3	89.6	77.7	13.7	83.9	75.5	14.2	81.6	74.5	14.4

LDE 882

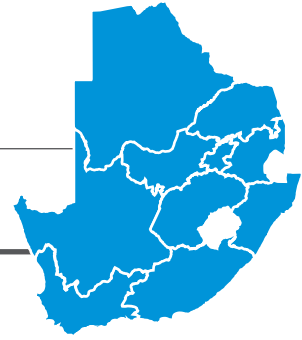


LDC 44-44



Please note: This Indoor Unit uses 2 Condensers

ECOAIRE REFERENCES



SHOPPING MALLS



V & A Marina Waterfront
Mall of the North
Soshanguve Crossing
The Grove
Mall @ Middelburg
Northgate Mall
Cradlestone
Mall of the South
Watercrest Mall
Thaba Mall
Canary Walk – Nelspruit
Waterstone – Cape Town
Zevenwacht Mall

HOTELS & ENTERTAINMENT



Westcliff
– Johannesburg
Gold Reef City Casino
– Johannesburg
Grand West Casino
– Cape Town
Emperor's Palace
One & Only
– Cape Town
Tusk Casino
– Empangeni
Radisson Hotel
– Port Elizabeth

EDUCATIONAL



Westville University
UNISA Florida
University of Pretoria
Engineering Department -
Thuto Building -
Mangosuthu Technikon
University of Johannesburg:
Bunting Road

HOSPITALS



3 Military Hospital
Panorama Mediclinic
Civitas Pretoria
Natalspuit Hospital
Netcare Pinehaven
Highveld Eye Hospital
Military Health Base
Mokopane Hopital
Albert Luthuli Academic
Hospital
Addington Hospital
Vryburg Hospital
N1 City Hospital

PUBLIC BUILDINGS



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FNB van der Bijl Park
Toyota Midrand
CTM & Italtile
Porche Head Office
– Pretoria
CSIR
BMW
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SPECIAL PHARMACEUTICAL SITES



Middelburg Pharmacy
Plascon Test Laboratory
Lea Glen Pharmacy
Phokeng Pathology
Covidien Pharmaceuticals



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