LENNOX

CHP15 SERIES

AIR-TO-AIR HEAT PUMPS

NOMINAL COOLING RANGE 6 to 16kW HEATING RANGE 6 to 16kW

. iese are complete, high-quality reversible heat pumps suitable for small to medium commercial applications. CHP heat pumps incorporate many standard features (see below) which are frequently offered as optional extras by other manufacturers.

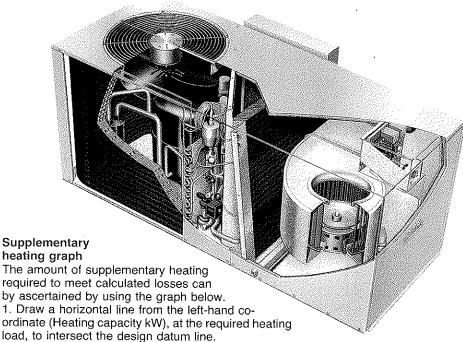
Standard features

Copper tube coils.
Fully hermetic compressor.
Crankcase heater.
Heavy duty reversing valve.
Flow control valve.
Suction line accumulator.
High capacity drier.
Clock timer defrost.
High pressure switch.
Defrost control.
Multi-speed blower motor.

Optional equipment

Heat-cool thermostat with emergency heat sub-base. Electric heat.
Timed off control.
Economiser.
Duct enclosure for conversion to tical air handling.
...of mounting frame.
Status panel.
Low ambient control.

Flexistat programmable control.



Should the design temperature be other than -1°C draw a new datum line.

2. To check that the balance point is at or below the recommended 6°C, which is considered suitable for most applications, draw a diagonal line from the inside design temperature mark (21°C) to this intersection of the datum line.

The balance point is where the diagonal intersects the heat pump capacity curve.

3. The supplementary heating required is represented by the difference between the intersection of the datum line by 1) the horizontal heating load line and 2) the heat pump capacity curve — as read off the left-hand co-ordinate.

Selector

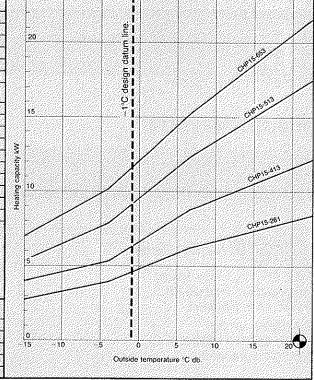
Outdoor air dampers.

Model number		CHP15-261	CHP15-413	CHP15-513	CHP15-65	
Total cooling capacity* kW		6.2	9.4	12.9	15.9	
Dehumidifying capacity		24%	20%	22%	25%	
Heating output @ +8.3°C (kW		6.2	9.1	12.7	15.6	
Heating output @ -1°C (kW)		4.5	6.5	9.0	11.5	
Outdoor coil air volume (m³/s	100000000000000000000000000000000000000	0.865	1/100	1.690	1.690	
Condensate drain size m.p.f. (in)	3/4	3/4	3/4	3/4	
Net weight basic unit (kg)	122	183	240	245		
Optional electric heat model r Electric heat capacity (kW)	ECB18- 5.0-15.0	ECB18 9.5-19.0-	ECB18- 9.5-23.0	EC818- 9.5-23.0		
Optional roof mounting frame	RMF15-46 (46)		RMF15-65 (49)			
Optional Economiser damper	REMD15-46 (47)		REMD15-65 (62)			
Optional horizontal Economis	EMDH15-46 (40)		EMDH15-65 (62)			
Optional duct enclosure (kg)	RDE15-46 (29)		RDE15-65 (44)			
Optional filter section (kg)	FS15-46 (5)		FS15-65 (20)			
Optional outside air damper (OAD15-46 (6)		OAD15-65 (10)			
Optional gravity exhaust dam	GED15-46 (2)		GED15-65 (3)			
Optional side-by-side to over-u	DT15-46 (21)		DT15-65 (55)			
Optional ceiling diffusers	step down (kg)	RTD9-65 (30)		RTD9-65 (30)		
	flush (kg)	FD9-6	5 (17)	FD9-6	55 (17)	

*Rated at 60 l/s evaporator air volume per kW of cooling, 35°C outdoor air temperature, 27°C dry bulb and 19.4°C wet bulb entering evaporator air.

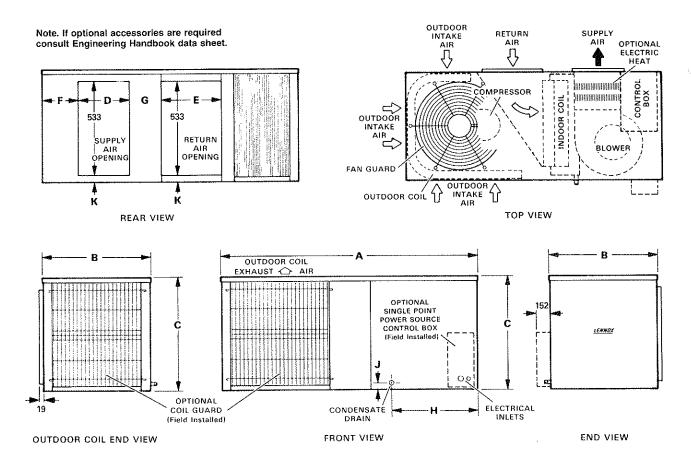
lower performance

Model number	Nominal mo	tor output	Minimun external stat		Maximum air at external static pressure		
	(kW)	(hp)	(m³/s)	(Pa)	(m³/s)	(Pa)	
CHP15-261	0.249	1/3	0.255	150	0.645	0	
CHP15-413	0.373	1/2	0.395	150	0.790	0	
CHP15-513	0.373	V2	0.640	175	0.965	0	
CHP15-653	0.373	1/2	0.640	175	0.965	0	



· SINGLE PACKAGE AIR CONDITIONING

Dimensions - mm



Note; Allow a further 356 mm to height for roof mounting frame if used.

Model number	Α	/8	C	D	499/ E 3999	900 F 1000	G	H	J	K
CHP15-261	1454	610	641	348	341	222	122	492	35	41
CHP15-413	1530	781	714	348	338	222	122	538	38	41
CHP15-513-653	1778	940	879	391	440	197	132	560	54	/:2137

Installation clearances (Note. Leave top unobstructed)

Model number		CHP15-261			CHP15-413		771127E	CHP15-513			CHP15-653	15919991
	Ends	Front	Rear	Ends	Front	Rear	Ends	Front	Rear	Ends	Front	Rear
Basic unit	914	305	914	914	305	914	914	305	914	914	305	914
with REMD15	914	1123	914	914	1123	914	914	1123	914	914	1123	914
with EMDH15*	914	1432	914	914	1432	914	914	1432	914	914	1432	914

^{*}Allow space to make duct connection.

Electrical data

Model number	CHP15-261	CHP15-413	CHP15-513	CHP15-653
Line voltage and phase 50 Hz	220/240 – 1ph		380/420 3-phase with neutral	
Unit maximum starting current (A)	59.2	42.3	52.8	72.8
Unit maximum running current (A)	13.9	9.9	12.4	15.4

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Since the company pursues a policy of continuc development, it reserves the right to make changes without prior notice.

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