

UNIVERSAL

Air Conditioner

High Static Ducted Split System Also Available on OEM Brand

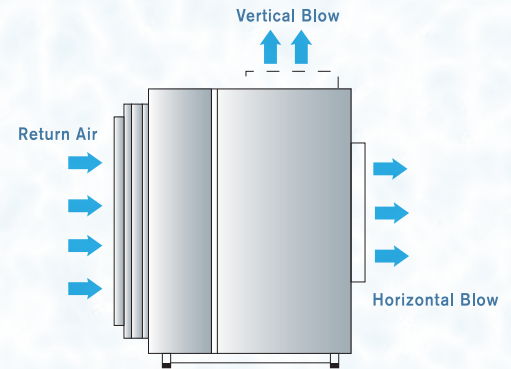


INTRODUCTION

KoolMan's Ducted-split units are designed for duct type air-conditioning system in commercial and industrial application. Ducted-split unit has single and multiple hermetic compressors with independent refrigerant circuit. Each refrigerant circuit consists of a high efficiency condenser and expansion valve.

FLEXIBLE APPLICATION & INSTALLATION

Optional high and medium static pressure depends on different application and air distribution, which makes KoolMan's High Static Duct System easier and flexible convertible design air discharge to cater for either horizontal or vertical air discharge application. (Only for model UCL -1259C ~ UCL-7509C5)



HIGH EFFICIENCY SCROLL COMPRESSOR

Adopting very famous Brand with a special low noise, low vibration and high performance scroll compressor. Possesses a high Energy Efficiency Ratio (EER) delivering exceptional performance with a reduction in energy consumption.

HIGH EFFICIENCY AIR DISTRIBUTION

The indoor unit is using metal blower with forward-curved blade fan and secured by the metal housing. The outdoor propeller fan for UCL401 ~ UCL601 models are of acryl styrene resin construction direct driven by weatherproof single phase PSC motor with Class E insulation and for UCL 759 ~ UCL 2009 models are constructed from 4 blades aluminum material and direct driven by weatherproof three phase induction motor of Class F (155°C) insulation.



UNIT

The casing is constructed with galvanized mild steel sheet which provides a rigid cabinet. The internal components are easily accessible by removing the service panels. The finishing of the casing is of plain galvanized steel sheet or epoxy polyester powder coating is optional.

HEAT EXCHANGER

Each coil consist of staggered row of 3/8" OD seamless copper tubes, mechanically expanded into die-formed aluminum fins. Each coil provided with integral sub-cooling circuit to maximize energy efficiency and promote superior match-system operating performance when connected to suitably sized DX Evaporator-Blower unit. Coils are leak and pressure tested to 450 psig while storage pressure is keep at 100 Psig.



SAFETY CONTROLS

All Outdoor units are equipped with auto reset high pressure and low pressure cut-out to protect against compressor damage due to high head pressure and system leakage respectively. Phase protector (optional) is used to detect for any wrong phase and phase loss during installation and operation.

INDOOR UNIT SPECIFICATION

INDOOR UNIT			UCL - 1259C	UCL - 1509C	UCL - 2009C	UCL - 2509C2	UCL - 3009C2
TOTAL COOLING CAPACITY		Btu/h	125,000	150,000	210,000	250,000	300,000
		W	36,630	43,960	61,220	73,270	87,920
INPUT POWER		W	1,500		1,920	3,000	4,000
POWER SOURCE		V/Ph/Hz	380~415 / 3 / 50				
REFRIGERANT CONTROL TYPE			INDOOR TXV				
AIRFLOW		CMM (CFM)	108 (3800)	127 (4500)	170 (6000)	218 (7700)	263 (9300)
EXTERNAL STATIC PRESSURE		Pa (in.wg)	150 (0.6)			200 (0.8)	
SOUND LEVEL		dBA	62	63		64	66
UNIT DIMENSION H*W*D		mm	637 * 1456 * 757			1191 * 2155 * 1185	
CONNECTING PIPE SIZE	LIQUID	mm (in)	15.88 (5/8)				
	GAS	mm (in)	28.58 (1-1/8)			34.92 (1-3/8)	
RECOMMENDED OUTDOOR UNIT MODEL (SINGLE OR COMBINATION)			UCL - 1259	UCL - 1509	UCL-2009	UCL - 1259 x 2	UCL - 1509 x 2
INDOOR UNIT			UCL - 3509C3	UCL - 4009C4	UCL - 5009C4	UCL - 6009C4	UCL - 7509C5
TOTAL COOLING CAPACITY		Btu/h	350,000	400,000	500,000	600,000	750,000
		W	102,550	17,230	146,540	175,840	219,800
INPUT POWER		W	5,000	5,500	7,500	1,000	15,000
POWER SOURCE		V/Ph/Hz	380~415 / 3 / 50				
REFRIGERANT CONTROL TYPE			INDOOR TXV				
AIRFLOW		CMM (CFM)	312 (11000)		413 (14600)	581 (20500)	651 (23000)
EXTERNAL STATIC PRESSURE		Pa (in.wg)	200 (0.8)		250 (1.0)	300 (1.2)	350 (1.4)
SOUND LEVEL		dBA	68		69	70	71
UNIT DIMENSION H*W*D		mm	1191 * 2155 * 1185		1191 * 2705 * 1400	1870 * 2705 * 1750	
CONNECTING PIPE SIZE	LIQUID	mm (in)	15.88 (5/8)				
	GAS	mm (in)	34.92 (1-3/8)	28.58 (1-1/8)	34.92 (1-3/8)		
RECOMMENDED OUTDOOR UNIT MODEL (SINGLE OR COMBINATION)			UCL - 1009 & UCL - 1259 x 2	UCL - 1009 x 4	UCL - 1009 x 2 & UCL - 1259 x 2	UCL - 1509 x 4	UCL - 1509 x 5

OUTDOOR UNIT SPECIFICATION

OUTDOOR UNIT (VERTICAL SERIES)			UCL - 401AF	UCL - 501AF	UCL - 601AF	UCL - 809
TOTAL COOLING CAPACITY	Btu/h		40,000	50,000	60,000	80,000
	W		11,720	14,650	17,580	23,450
INPUT POWER	W		4000	4720	5750	7400
POWER SOURCE	V/Ph/Hz		380~415 / 3 / 50			
SOUND LEVEL	dBA		65			74
UNIT DIMENSION H*W*D	mm		1000 * 1000 * 350		1230 * 970 * 350	950 * 1180 * 400
CONNECTING PIPE SIZE	LIQUID	mm (in)	9.52 (3/8)			12.7 (1/2)
	GAS	mm (in)	19.05 (3/4)			25.4 (1.0)
OUTDOOR UNIT			UCL - 1009	UCL - 1259	UCL - 1509	UCL - 2009
TOTAL COOLING CAPACITY	Btu/h		100,000	125,000	150,000	210,000
	W		29,300	36,630	43,960	61,220
INPUT POWER	W		9550	10790	14370	18000
POWER SOURCE	V/Ph/Hz		380~415 / 3 / 50			
SOUND LEVEL	dBA		68	68	69	73
UNIT DIMENSION H*W*D	mm		950 * 1080 * 940			950 * 1080 * 940 1026 * 1935 * 940
CONNECTING PIPE SIZE	LIQUID	mm (in)	15.88 (5/8)			
	GAS	mm (in)	28.58 (1-1/8)			

Conditions:

- Nominal cooling capacities are based on the following conditions: indoor 26.7°CDB, 19.4°CWB, outdoor 35°CDB.
- All specifications are subjected to change by manufacturer without prior notice.



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AUTHORIZED DISTRIBUTOR:

UNIT PREVIEW



INDOOR UNIT SPECIFICATION

INDOOR UNIT			UCL - 409C	UCL - 509C	UCL - 609C	UCL - 809C	UCL - 1009C
TOTAL COOLING CAPACITY	Btu/h		40,000	50,000	60,000	80,000	105,000
	W		11,720	14,650	17,580	23,450	29,300
INPUT POWER	W		375		450	550	2 x 375
POWER SOURCE	V/Ph/Hz		220~240 / 1 / 50				
REFRIGERANT CONTROL TYPE			INDOOR CAPILLARY TUBE / ACCURATOR			INDOOR TXV	
AIRFLOW	CMM (CFM)		45 (1600)		51 (1800)	62 (2200)	91 (3200)
EXTERNAL STATIC PRESSURE	Pa (in.wg)		100 (0.4)				
SOUND LEVEL	dBA		54		58	59	60
UNIT DIMENSION H*W*D	mm		411 * 1039 * 600			535 * 1056 * 757	637 * 1456 * 757 1830 * 1900 * 950
CONNECTING PIPE SIZE	LIQUID	mm (in)	9.52 (3/8)			12.7 (1/2)	15.88 (5/8)
	GAS	mm (in)	19.05 (3/4)			25.4 (1.0)	28.58 (1-1/8)
RECOMMENDED OUTDOOR UNIT MODEL (SINGLE OR COMBINATION)			UCL - 401AF	UCL - 501AF	UCL - 601AF	UCL - 809	UCL-1009/UCL-2009

Conditions:

1. Nominal cooling capacities are based on the following conditions: indoor 26.7°CDB, 19.4°CWB, outdoor 35°CDB.
2. All specifications are subjected to change by manufacturer without prior notice.