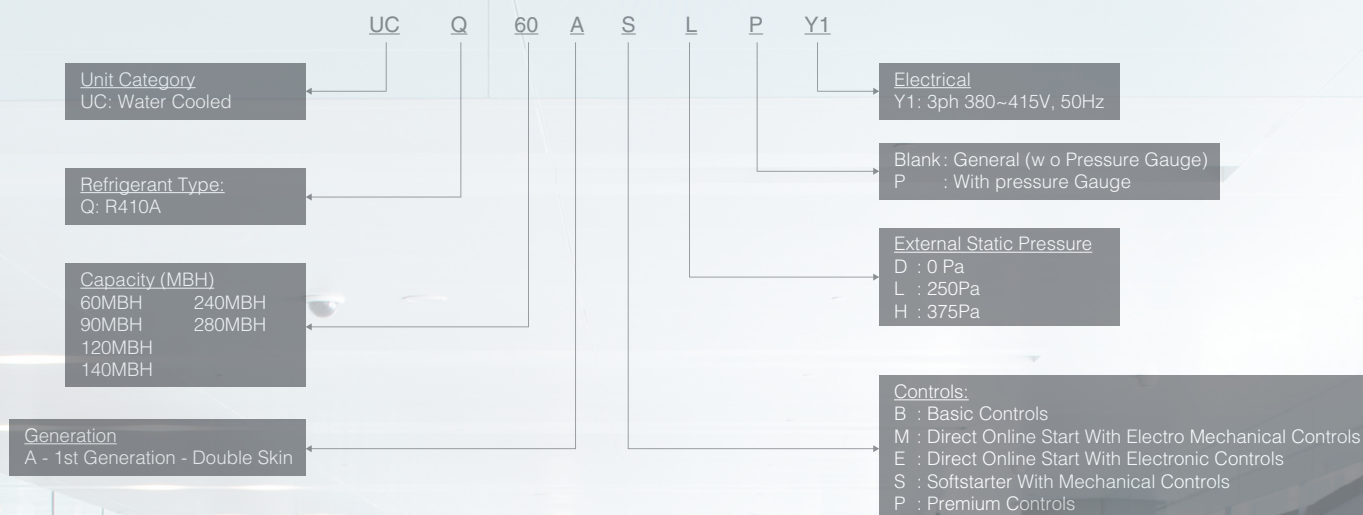




## WATER COOLED PACKAGED UNITS

COOLING CAPACITY:  
60 TO 280 MBH

## NOMENCLATURE



### GENERAL DESCRIPTION

The water cooled self-contained air conditioner is the ultimate solution addressing the energy efficiency, reliability, indoor air quality, and sound concerns for commercial, industrial and institutional buildings.

We offers a simple system design, increases system redundancy by providing individual air conditioning systems per floor, lowers maintenance costs, eases operation and maintenance, provides the lowest life cycle cost available, and best of all low noise level for quiet operation.

Based on these features, the self-contained unit has surpassed the traditional chillers, air handlers and rooftop systems and is now the system of choice.

Models 60MBH to 280MBH are factory assembled, refrigerant charged and tested water-cooled packaged air conditioning units designed for ducted applications.

### Features

- Double skin
- Single or Multiple hermetic scroll compressors
- Water cooled condensers
- Single or Multi-circuit evaporator
- Thermal expansion valves
- Interconnecting refrigerant piping
- Double Inlet Centrifugal Supply fan
- Belt driven
- Fan motor
- R29 or G3 Filters
- All necessary operating and required safety controls to operate the unit.

## ► PHYSICAL DATA

Model name		UCQ60ASLPY1	UCQ90ASLPY1	UCQ140ASLPY1	UCQ180ASLPY1	UCQ240ASLPY1	UCQ280ASLPY1
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Cooling capacity	kW	16.9	25.6	38.8	51.0	68.0	83.4
	MBH	58	87	133	174	232	285
Compressor							
Type		Hermetic Scroll					
Power Supply		380-415/3/50					
Quantity		1	1	1	1	1	1
Condenser							
Type		Tube in Tube				Tube & Shell	
Water Connection In & Out (MPT)		BSPT	1-1/4" with female thread	1-1/4" with female thread	1-1/2" with female thread	1-1/2" with female thread	2-1/2" with female thread
Water Flow		m³/h	3.6	5	8.05	10.76	13.6
Condenser Pressure drop		kPa	10	16	12	16	13
Evaporator coil							
Tube type		3/8" OD Inner Groove Copper tube					
Fin type		Aluminum Fin					
Refrigerant Control		TXV	TXV	TXV	TXV	TXV	TXV
Rows/ Fins per Inch		3/14	4/12	3/14	4/12	3/14	3/14
Evaporator fan							
Type/Drive		Centrifugal DWDI Forward Curve/ Belt Driven					
Motor (Qty)		2HP (1)	3HP (1)	4HP (1)	4HP (1)	7.5HP (1)	10HP (1)
Size (Qty)		AT 9-9 S (1)	AT 9-9 S (1)	AT 15-15 S (1)	AT 15-15 S (1)	AT 15-15 S (1)	AT 18-18 S (1)
Dimension							
Length		mm	1068	1410	1486	1486	1576
Width		mm	570	570	765	765	1176
Height		mm	1755	1814	2153	2370	1768
Return Air Filter							
Nominal Thickness		inch	1	1	1	1	1
Actual Size (Qty)		mm	961 X 518 (1)	1301 X 518 (1)	1377 X 677 (1)	1377 X 894 (1)	595 X 595 (4) 290 X 595 (2)
Shipping Weight		kg	160	241	416	470	558
Operating Weight		kg	162	245	423	476	566
Connection		Condensate (Side)	1-1/4" male thread (1)	1-1/4" male thread (1)	1-1/4" male thread (2)	1-1/4" male thread (2)	1-1/4" male thread (2)

## ► PERFORMANCE TABLE

	Capacity				AIR ON EVAPORATOR			WATER TEMPERATURE OFF CONDENSER (°C)									Sound	
Model	Ton	MBH	kW	Nominal water flow rate (m³/h)	Nominal air flow (CFM)	Dry Bulb Temperature (°C)	Wet Bulb Temperature (°C)	21			35			40			Rated at ESP 250Pa	
								Total Cooling Capacity (MBH)	Sensible Capacity (MBH)	Total Power Input (kW)	Total Cooling Capacity (MBH)	Sensible Capacity (MBH)	Total Power Input (kW)	Total Cooling Capacity (MBH)	Sensible Capacity (MBH)	Total Power Input (kW)	SPL dB(A) 1m	SPLw dB(A)
UCQ60ASLPY1	4.8	58	16.9	3.6	1800	21	15	55.0	38.3	3.63	50.1	36.2	4.45	46.6	34.0	4.98	70	81
						26.7	19.4	61.4	41.3	3.75	57.7	38.9	4.55	55.1	39.2	5.10		
						32	23	67.8	44.3	3.80	61.2	41.8	4.70	59.0	41.0	5.20		
UCQ90ASLPY1	7.3	87	25.6	5.0	2700	21	15	82.4	60.3	5.69	75.0	55.0	6.80	70.8	52.9	7.66	71	83
						26.7	19.4	92.7	62.4	5.80	87.2	59.9	6.94	83.2	58.5	7.60		
						32	23	104.6	69.4	5.90	94.3	65.0	7.00	89.2	63.4	7.47		
UCQ140ASLPY1	11.0	133	38.8	8.1	4500	21	15	129.0	94.6	8.45	117.5	93.7	10.30	107.2	88.3	11.27	71	85
						26.7	19.4	140.9	100.2	8.50	132.5	94.9	10.41	126.5	98.2	11.40		
						32	23	158.2	108.9	8.63	142.6	103.0	10.50	138.8	101.9	11.50		
UCQ180ASLPY1	14.5	174	51.0	10.8	5400	21	15	168.9	119.5	11.07	153.8	113.4	13.20	144.4	107.8	14.73	73	87
						26.7	19.4	184.9	126.8	11.20	173.9	119.5	13.35	166.0	119.8	14.80		
						32	23	204.9	136.3	11.32	184.7	126.8	13.53	181.3	126.3	14.90		
UCQ240ASLPY1	19.3	232	68.0	13.6	7000	21	15	215.8	151.9	14.82	196.5	145.4	18.10	188.2	141.4	19.56	77	89
						26.7	19.4	246.6	165.6	14.96	231.9	157.8	18.16	221.3	158.8	19.72		
						32	23	285.3	182.6	15.12	257.3	173.6	18.30	252.6	172.9	19.75		
UCQ280ASLPY1	23.7	285	83.4	15.9	8900	21	15	271.3	195.2	16.28	247.0	185.1	20.00	232.2	177.0	21.32	76	88
						26.7	19.4	302.8	210.9	16.43	284.7	197.5	19.95	271.7	199.0	21.50		
						32	23	336.3	226.7	16.72	303.2	211.6	20.20	305.2	215.6	21.74		





**DAIKIN REFRIGERATION MALAYSIA SDN. BHD.**

Lot 10, Jalan Perusahaan 8, Kawasan Perusahaan Pekan Banting,  
42700 Banting, Selangor D.E. Malaysia

Email : lohtm@daikin.com.my  
leekb@daikin.com.my  
Website : drm.daikinmalaysia.com

