



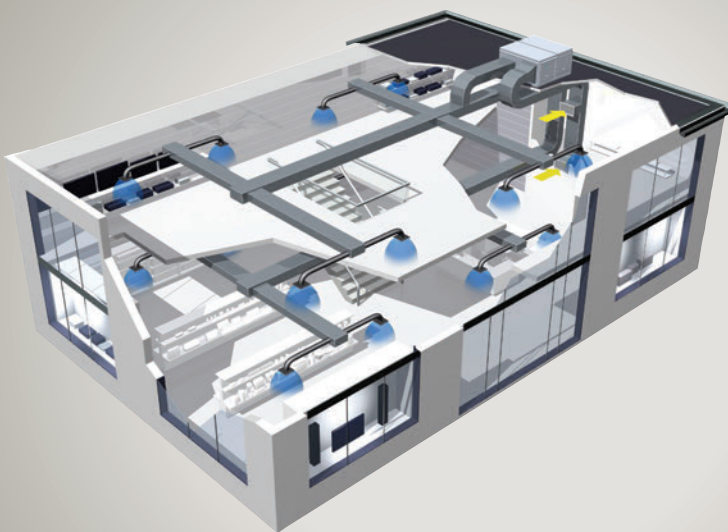
Air conditioners

Cooling only

R-22

- » 'Plug and play'
for easy installation
- » High efficiency
- » Quick cooling
- » Wide operation range
- » Compact unit

Rooftop, an economical solution for medium to large spaces



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UAT-AY1



UAT-C

Features

Plug and play installation

The single unit configuration requires no additional piping work as both the indoor and outdoor sides are pre-connected. Once the ductwork is installed, the only thing left to do is connect the unit. The horizontal air discharge from the top and return air from the bottom make duct design easy.



High efficiency

Supplied with high efficiency and reliable scroll compressors, optimized heat exchangers and high-performing fans, the rooftop UAT-AY1 and UAT-CGXY series are designed to ensure a high energy efficiency and reduced consumption.



UAT-CGXY high efficiency range

- › Specially designed to deliver top performance in both standard and high ambient temperature conditions, in terms of capacity and efficiency
- › Higher efficiency: Nominal EER up to 3,36 W/W (11,47 Btu/hr/W)
- › Optimised *de*-rating factor: capacity performance at 46°CDB is around 90% of total capacity at 35°CDB
- › Low energy consumption at 48°CDB: lower than 1,7 kW/TR*

Model	UAT150CGXY	UAT180CGXY	UAT240CGXY	UAT300CGXY
Power consumption at 48°CDB(kW/TR)	1.51	1.55	1.62	1.57

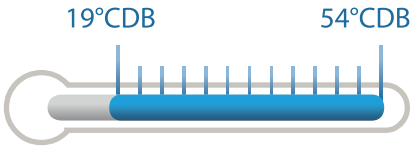
Table: Power consumption at 48°CDB (kW/TR)

Large line up

Operation	Range	Outdoor	Unit	Line-up overview - Capacity (Btu/hr)									
				60.000	80.000	100.000	115.000	150.000	200.000	250.000	300.000	330.000	400.000
C/O	Standard efficiency	UAT-AY1											
	High efficiency	UAT-CGXY											

Wide operation range

The units operate from 54°CDB (UAT-AY1 from 52°CDB) down to 19°CDB in cooling mode.



Compact and light

The flat top design of the unit allows for maximum utilization of warehouse and container space, while the light frame ensure ease of handling and installation.

Flexibility of Air Supply **

A belt driven fan is used such that the air volume and static pressure required can be adjusted according to the requirements. This flexibility allows for wider application and offers the possibility to reach the best working conditions considering the unit’s characteristics.

** The pulley (field supply) is changeable at site for flexibility in terms of static pressure and air flow.

Easy to control

User-friendly wired remote controller is offered as standard:

- › SLM controller, for UAT-AY1 180/240/280/320, includes 15 hour delay timer, temperature setting...
- › Sequential LCD controller, for UAT-CGXY and UAT-AY1 C10/C12, incorporates many functions like a 7 programmable timer, temperature setting, compressor running, error status, energy saving mode and key lock function.
- › For applications requiring mechanical control, the high efficiency range offers an an optional series: UAT-CGX9***.

*** For more details, please contact your local dealer

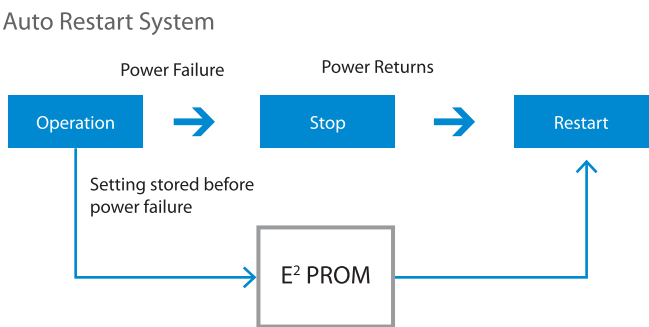
Indoor air quality

- › The standard washable filter can easily be accessed for facilitated maintenance.
- › An additional field supplied filter can easily be installed on the 2 inch rail to meet the indoor air quality requirements of the application.

Auto random restart with last state memory

- › In case of sudden power failure during operation, unit will be automatically restarted in 180s – 244s different recovery timing patterns
- › The operation is based on the previous setting: Mode, Temperature and Fan Speed.
- › This ensures that air conditioners in the same building resume control randomly instead of turning on at the same time, preventing power surge after a blackout.

In case of sudden power failure, random restart with previous settings to prevent power surges after blackout.



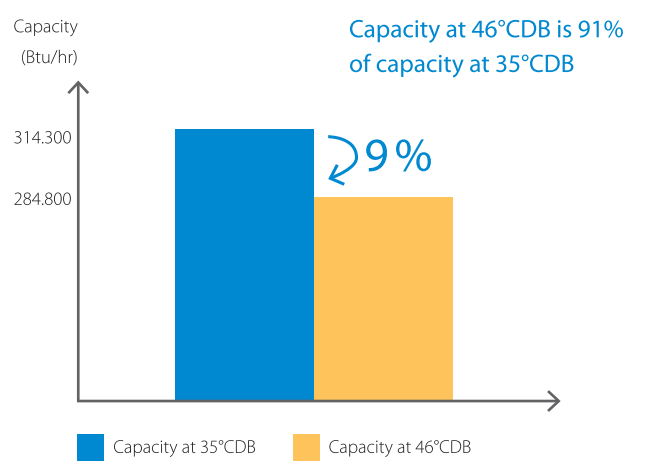
High Efficiency range:

UAT-CGXY series



Line up overview - Capacity (Btu/hr)	150.000	200.000	250.000	300.000
Capacity class index	150	180	240	300

High performance under standard and high ambient conditions - UAT300CGY



2 independent refrigerant circuits

Two independent refrigerant circuit can be controlled individually, allowing the unit to run at **part load** when less capacity is required.

Start-up booster mode for quick cooling

if the unit restarts two hours after it has stopped or during power-on-reset, the unit will enter into a booster mode by automatically reducing the set temperature by 2°C to ensure / guarantee superior cooling at start-up.



Separate service panel

Service panels are divided into two different sections for ease of servicing. Preliminary servicing & troubleshooting can be conducted by opening the top service panel, without stopping the unit operation.

Anti corrosion protection as standard

Standard anticorrosion protection with the hydrophilic gold fin coating, giving the condenser coil a longer life span under corrosive environment.

Quiet operation as standard

The operating sound level is down to 66 dBA.

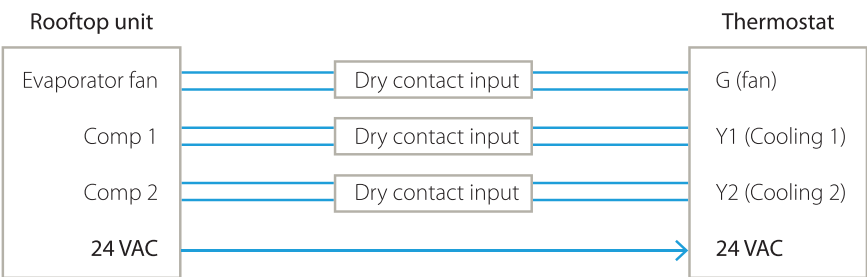
Easy duct design

Horizontal air discharge from the top and return air from the bottom for an easy duct design.

Flexible control: optional mechanical control series

For certain applications a mechanical control is required instead of PCB control. For the UAT-CGY series this is available through an optional series***. The rooftop with mechanical control provides connection to the thermostat for control of evaporator fan motor, compressors and condenser fan motor, and has a 24 Volt transformer provided for field installed thermostat.

*** Mechanical control rooftop series name is UAT-CGY9.



Cooling only

Model				UAT150CGXY	UAT180CGXY	UAT240CGXY	UAT300CGXY	
Nominal Cooling Capacity				Btu/h	150,000	192,300	255,000	314,300
Total Power Input				KW	13.07	16.92	23.00	28.36
EER				W/W	3.36	3.33	3.25	3.25
				Btu/h/W	11.48	11.37	11.09	11.08
Evaporator	Air Flow			CFM	4600	6500	7900	8700
				L/s	2,171	3,068	3,728	4,106
	External Static Pressure			Pa	125	150	200	250
Condenser	Sound Pressure Level			dBA	66	68		73
	Operation Range		Min.~Max.	°C	19 ~ 54			
	Dimension		Height x Width x Depth	mm	1,390 x 1,965 x 1,630		1,690 x 1,965 x 1,905	1,650 x 2,410 x 2,030
	Weight			Kg	600	650	850	980
	Power Supply		Voltage/Phase/Frequency	V/Ph/Hz	380-415/3/50			

Standard Efficiency range:

UAT-AY1 series



Line up overview - Capacity (Btu/hr)	60.000	80.000	100.000	115.000
Capacity class index	180	240	280	320
Cooling only				



Line up overview - Capacity (Btu/hr)	330,000	400,000
Capacity class index	C10	C12
Cooling only		



High efficiency

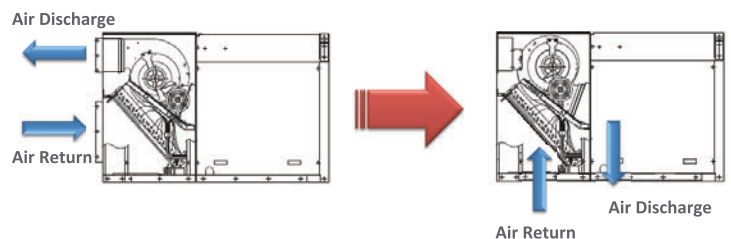
Nominal EER up to 3,08 W/W (10,5 Btu/hr/W)

Partial loading

The 2 compressors systems can run at part load when less capacity is required.

Field convertible return and supply air increases flexibility of installation*

The return and discharge air flow can be shifted to vertical mode, by simply repositioning the fan group.



Quiet operation as standard

The operating sound level is down to 63 dBA.

* available on UAT320AY1

Cooling only

Model				UAT180AY1	UAT240AY1	UAT280AY1	UAT320AY1	UAT10AY1	UAT12AY1
Nominal Cooling Capacity			Btu/h	59,000	80,000	100,000	116,000	329,000	404,000
Total Power Input			KW	5.61	8.10	10.50	11.56	39.87	46.80
EER			W/W	3.08	2.89	2.79	2.94	2.42	2.53
			Btu/h/W	10.52	9.88	9.52	10.03	8.25	8.63
Evaporator	Air Flow		CFM	1,800	2,826	3,532	3,602	11,018	12,502
			L/s	850	1,334	1,667	1,700	5,200	5,900
	External Static Pressure		Pa	100				300	
Condenser	Sound Pressure Level		dBA	63	65	66	68	80	
	Operation Range	Min.~Max.	°C	19 ~ 52					
	Dimension	Height x Width x Depth	mm	1,000 x 1,100 x 1,530	1,000 x 1,300 x 1,530			1,974 x 2,252 x 3,180	
	Weight		Kg	295	370	400	425	1,510	1,600
	Power Supply	Voltage/Phase/Frequency	V/Ph/Hz	380-415/3/50					



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