



Climate Control

Chillers & Air Handlers



Equipment Overview

Byrne's Climate Control division specialises in Spot, Comfort and Process Cooling. We provide a wide range of equipment, including air-conditioning units, chillers, dehumidifiers, heaters and ventilation systems. Our services cover free site surveys, bespoke HVAC design, build solutions, installation, commissioning, servicing, ongoing maintenance and comprehensive system health checks.



Chillers and Air Handlers

For larger structures, Byrne offers chillers (100 TR-500 TR), including 200 TR units, along with Air Handling Units (AHUs) to complement our AC range.



*For technical enquiries, please contact our local sales specialist.

Here are some of our main equipment products. Product specifications may vary and are subject to change without prior notice.

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Climate Control Split Units



Split AC Unit: 3 TR / 11 kW & 5 TR / 18 kW



10 TR / 35 kW Split AC Unit



Specifications/ Size	3 TR / 11 kW		5 TR / 18 kW		10 TR / 35 kW	
Product	Air Conditioner					
Type	Split AC Unit					
BTU/H	36000		60000		121000	
Air Flow	0.52 M ³ /S		0.64 M ³ /S		1.68 M ³ /S	
Power Supply	220-240 V / 1 ph / 50-60 HZ		220-415 V / 3 ph / 50-60 HZ		380-415 V / 3 ph / 50-60 HZ	
Rated Current (A)	15.91 - 18.93		8.66 - 11.59		19.2	
Max Power Input (kW)	7		9		32.5	
Unit	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Dimensions	0.55 M (W) x 0.35 M (D) x 1.8 M (H)	0.95 M (W) x 0.35 M (D) x 1.8 M (H)	0.61 M (W) x 0.39 M (D) x 1.93 M (H)	1.03 M (W) x 0.44 M (D) x 1.31 M (H)	1.2 M (W) x 1.86 M (D) x 0.42 M (H)	1.26 M (W) x 0.91 M (D) x 0.7 M (H)
Noise	55 dBA	59.1 dBA	59.5 dBA	63 dBA	65 dBA	69 dBA
Weight	64 KG	70 KG	79 KG	110 KG	174 KG	215 KG
Cooling Area	48 M ² - 70 M ² *		80 M ² - 117 M ² *		160 M ² - 234 M ² *	

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Climate Control Package Units



5 TR / 18 kW Package AC Unit



7.5 TR / 25 kW Package AC Unit



15 TR / 53 kW Package AC Unit



Specifications/ Size	5 TR / 18 kW	7.5 TR / 25 kW	15 TR / 53 kW	25 TR / 88 kW
Product	Air Conditioner			
Type	Split AC Unit			
BTU/H	58000	89000	180000	300000
Air Flow	0.94 M ³ /s	0.79 M ³ /s	3.78 M ³ /s	4.72 M ³ /s
Power Supply	380-415 V / 3 ph / 50-60 HZ			
Max Power Input (kW)	7.4	13.6	25	40.5
Max Current (A)	15.5	27.2	48	77.4
Dimensions	1.35 M (W) x 0.9 M (D) x 1.34 M (H)	1.5 M (W) x 0.87 M (D) x 1.15 M (H)	1.97 M (W) x 1.23 M (D) x 1.13 M (H)	2.32 M (W) x 1.25 M (D) x 2.22 M (H)
Weight	186 KG	236 KG	490 KG	925 KG
Noise	Low noise level - Compressors have built in mufflers			

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Industrial Package AC Units



30TR / 106 kW Industrial Package AC Unit



Specifications/ Size	30 TR / 106 kW
Product	Air Conditioner
Type	Industrial Package AC unit
BTU/H	360000
Air Flow	5250 CFM
Power Supply	380 V / 3 ph / 60 HZ
Max Power Input (kW)	91.2
Start Current (A)	100
Run Current (A)	86
Recommended Generator	200 kVA @ 380 V / 3 ph / 60 HZ
Dimensions	3.3 M (W) x 2 M (D) x 2.3 M (H)
Weight	3 Ton
Noise	68 dBA @ 3 M
Ducting	2 x 16 inch / 406 MM & 6 x 16 inch / 406 MM Return
Max Duct Length	30 M
Filter	Yes, On Return Ducts
Delta T	25° C
Thermostat	18°C Set Point

Specifications/ Size

50 TR / 176 kW

Product	Air Conditioner
Type	Industrial Package AC unit
BTU/H	600000
Air Flow	8750 CFM
Power Supply	380 V / 3 ph / 60 HZ
Max Power Input (kW)	182.4
Start Current (A)	200
Run Current (A)	140
Recommended Generator	250 kVA @ 380 V / 3ph / 60 HZ
Dimensions	4.4 M (W) x 2.2 M (D) x 2.3 M (H)
Weight	5 Ton
Noise	74 dBA @ 3 M
Ducting	2 x 16 inch / 406 MM & 6 x 16 inch / 406 MM Return
Max Duct Length	50 M
Filter	Yes, On Return Ducts
Delta T	20° C
Thermostat	18°C Set Point

50TR / 176 kW Industrial Package AC Unit



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220TR Air Cooled Chiller Unit



Specifications

Performance			
Cooling Capacity		220 TR 253 kW	
Efficiency		10.46 BTU/W.h	
Refrigerant Used		Eco Friendly : R-134a	
Sound Pressure Level		78.6 dBA @ 10 FT	
Evaporator		Condenser	
Type	Standard & Freeze Protection	Ambient Temperature & Maximum Ambient	95° F 120° F
Leaving & Entering Temperature	44° F 54° F	Fin Type	MCHE
Flow Rate	530 GPM	Fan Motor	Standard Condenser Fans
Pressure Drop	17.6 FT H ₂ O	Fan Motor Power	27.6 kW
Fluid Type	Water Glycol	Number Of Fans	12
		Total Condenser Air Flow	163356 CFM
Electrical			
Power Voltage	380 V / 3 ph / 60 HZ	MCA	609.7 Amps
Unit Power	252.9 kW	MOCP	850 Amps
Compressor Power Input	225.3 kW		
General Data			
Length	6176 MM	Shipping Weight	5313 KG
Width	2200 MM	Operating Weight	5622 KG
Height	2475 MM	Certificate of Conformity	AHRI Certified and TUV

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450 TR Air Cooled Chiller Unit



Specifications

Performance			
Cooling Capacity	447 TR 509 kW		
Efficiency	10.55 BTU/W.h		
Refrigerant Used	Eco Friendly : R-134a		
Sound Pressure Level	80.3 dBA @ 10 FT		
Evaporator		Condenser	
Type	Standard & Freeze Protection	Ambient Temperature & Maximum Ambient	95°F 120°F
Leaving & Entering Temperature	44° F 54° F	Fin Type	MCHE
Flow Rate	1072 GPM	Fan Motor	Standard Condenser Fans
Pressure Drop	19.66 FT H ₂ O	Fan Motor Power	55.2 kW
Fluid Type	Water Glycol	Number Of Fans	24
		Total Condenser Air Flow	326712 CFM
Electrical			
Power Voltage	380 V / 3 ph / 60 HZ	MCA	610 610 Amps
Unit Power	508.3 kW	MOCP	850 850 Amps
Compressor Power Input	453.1 kW		
General Data			
Length	13000 MM	Shipping Weight	10757 KG
Width	2200 MM	Operating Weight	11674 KG
Height	3000 MM	Certificate of Conformity	AHRI Certified and TUV

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