WeldChill



BROCHURE

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THE WELDCHILL STORY

Spotwelder cooling and Seam Welder cooling are critically important for long machinery life as well as long electrode life. With MFDC welders becoming more popular these days, there has been a great deal of focus on cooling the Diodes in the MFDC power supply and the IGBT inside the Inverter. But did you know that keeping the electrode cooler also provides for a more consistent weld even in AC welders?

These Chillers were not designed for Lasers or Lab equipment cooling and adapted to spot welders, they were designed from the ground up to be used only on spot-welders and seam welders. Simple to service and easy to maintain. These chillers not only give you the proper cool water but they also give you the best pumps for proper water flow as well.

The internals are all designed to prevent galvanic corrosion by using schedule 80 PVC and Stainless Steel wetted surfaces.

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HC-02A









PARAMETERS

MODEL		HC-02A
COOLING CAPACITY	Btuh	15360
	Ton	1.3
CONTROL VOLTAGE	System Power	115V AC 1P 60Hz (230 1ph 60hz available)
	Amps Input Power	18.0
REFRIGERANT	Type	R407C
	Control Type	Capillary
COMPRESSORS	Type	Hermetic scroll type (Piston)
	(HP)Power	2.00
PUMP	Type	Gear pump
	(m) Lift	16
	(HP) Power	0.50
CONDENSER	Type	Efficient copper tube set of aluminum finned + Low noise external rotor fan
	(m3/h) Air volume	2350
	(HP) Fan power	0.20
EVAPORATOR	Type	Stainless steel water tank coil type
	(l) Tank Size	36
OTHER FUNCTIONS AND PROTECTION	Function Description	Digital temperature control, horizontal foot, supply side flow check valve
	Power Protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection
	Machine Protection	Compressor overheating protection, high and low pressure protection, over temperature protection, flow protection, low level protection, anti-freezing protection
MACHINE DESCRIPTION	lbs (kg) Weight	225 (102)
	Dimensions (L×W×H) In	35.4x20.5x31.5

HC-03A







PARAMETERS

MODEL		HC-03A
COOLING CAPACITY	Btuh	23040
	Ton	1.9
CONTROL VOLTAGE	System Power	230V AC 3P 60Hz (Optional other power supply Available)
	Amps Input Power	8
REFRIGERANT	Type	R407C
	Control Type	Capillary
COMPRESSORS	Type	Hermetic scroll type (Piston)
	(HP)Power	3.00
PUMP	Type	Centrifugal pump
	(m) Lift	16
	(HP) Power	0.50
CONDENSER	Type	Efficient copper tube set of aluminum finned + Low noise external rotor fan
	(m3/h) Air volume	3216
	(HP) Fan power	0.20 x 2'
EVAPORATOR	Type	Stainless steel water tank coil type
	(l) Tank Size	46
OTHER FUNCTIONS AND PROTECTION	Function Description	Digital temperature control, horizontal foot, supply side flow check valve
	Power Protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection
	Machine Protection	Compressor overheating protection, high and low pressure protection, over temperature protection, flow protection, low level protection, anti-freezing protection
MACHINE DESCRIPTION	lbs (kg) Weight	299 (135)
	Dimensions (L×W×H) In	44.5x21x49.25

HC-05A







PARAMETERS

MODEL		HC-05A
COOLING CAPACITY	Btuh	38390
	Ton	3.2
CONTROL VOLTAGE	System Power	460V AC 3P 60Hz (Optional other power supply Available)
	Amps Input Power	11.5
REFRIGERANT	Type	R407C
	Control Type	Capillary
COMPRESSORS	Type	Hermetic scroll type (Piston)
	(HP)Power	5.00
PUMP	Type	Centrifugal pump
	(m) Lift	16
	(HP) Power	0.50
CONDENSER	Type	Efficient copper tube set of aluminum finned + Low noise external rotor fan
	(m3/h) Air volume	6570
	(HP) Fan power	0.30 x 2
EVAPORATOR	Type	Stainless steel water tank coil type
	(l) Tank Size	65
OTHER FUNCTIONS AND PROTECTION	Function Description	Digital temperature control, horizontal foot, supply side flow check valve
	Power Protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection
	Machine Protection	Compressor overheating protection, high and low pressure protection, over temperature protection, flow protection, low level protection, anti-freezing protection
MACHINE DESCRIPTION	lbs (kg) Weight	364 (165)
	Dimensions (L×W×H) In	49.25x28.5x53.5

HC-08A





PARAMETERS

MODEL		HC-08A
COOLING CAPACITY	Btuh	61430
	Ton	5.1
CONTROL VOLTAGE	System Power	460V AC 3P 60Hz (Optional other power supply Available)
	Amps Input Power	19.0
REFRIGERANT	Type	R407C
	Control Type	Capillary
COMPRESSORS	Type	Hermetic scroll type (Piston)
	(HP)Power	8.00
PUMP	Type	Eddy current pump
	(m) Lift	16
	(HP) Power	1.00
CONDENSER	Type	Efficient copper tube set of aluminum finned + Low noise external rotor fan
	(m3/h) Air volume	9800
	(HP) Fan power	.060 x 2
EVAPORATOR	Type	Stainless steel water tank coil type
	(l) Tank Size	115
OTHER FUNCTIONS AND PROTECTION	Function Description	Digital temperature control, horizontal foot, supply side flow check valve
	Power Protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection
	Machine Protection	Compressor overheating protection, high and low pressure protection, over temperature protection, flow protection, low level protection, anti-freezing protection
MACHINE DESCRIPTION	lbs (kg) Weight	627 (284)
	Dimensions (L×W×H) In	60x28.5x53.5

HC-10A





HC-15A





PARAMETERS

MODEL		HC-10A	HC-15A
COOLING CAPACITY	Btuh	76790	115180
	Ton	6.4	9.6
CONTROL VOLTAGE	System Power	460V AC 3P 60Hz (Optional other power supply Available)	460V AC 3P 60Hz (Optional other power supply Available)
	Amps Input Power	23.0	18.0
REFRIGERANT	Type	R407C	R407C
	Control Type	Capillary	Outside the balanced thermal expansion
COMPRESSORS	Type	Hermetic scroll type (Piston)	Hermetic scroll type (Piston)
	(HP)Power	10.10	15.10
PUMP	Type	Eddy current pump	Eddy current pump
	(m) Lift	16	17
	(HP) Power	100	2.00
CONDENSER	Type	Efficient copper tube set of aluminum finned + Low noise external rotor fan	Efficient copper tube set of aluminum finned + Low noise external rotor fan
	(m3/h) Air volume	9800	17000
	(HP) Fan power	.060 x 2	0.90 x 2
EVAPORATOR	Type	Stainless steel water tank coil type	Stainless steel water tank coil type
	(l) Tank Size	156	234
OTHER FUNCTIONS AND PROTECTION	Function Description	Digital temperature control, horizontal foot, supply side flow check valve	Digital temperature control, horizontal foot, supply side flow check valve
	Power Protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection
	Machine Protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection	Compressor overheating protection, high and low pressure protection, over temperature protection, flow protection, low level protection, anti-freezing protection
MACHINE DESCRIPTION	lbs (kg) Weight	838 (380)	993 (450)
	Dimensions (L×W×H) In	61x29x55	69.29x34x63

HC-25A HC-30A







PARAMETERS

MODEL		HC-25A	HC-30A
COOLING CAPACITY	Btuh	191970	230360
	Ton	16.0	19.2
CONTROL VOLTAGE	System Power	460V AC 3P 60Hz (Optional other power supply Available)	460V AC 3P 60Hz (Optional other power supply Available)
	Amps Input Power	33.00	37.0
REFRIGERANT	Type	R407C	R407C
	Control Type	Outside the balanced thermal expansion	Outside the balanced thermal expansion
COMPRESSORS	Type	Hermetic scroll type (Piston)	Hermetic scroll type (Piston)
	(HP)Power	25.10	30.20
PUMP	Type	Eddy current pump	Eddy current pump
	(m) Lift	20	20
	(HP) Power	5.40	5.40
CONDENSER	Type	Efficient copper tube set of aluminum finned + Low noise external rotor fan	Efficient copper tube set of aluminum finned + Low noise external rotor fan
	(m3/h) Air volume	34000	34000
	(HP) Fan power	2.00 x 2'	2.00 x 3
EVAPORATOR	Type	Stainless steel water tank coil type	Stainless steel water tank coil type
	(l) Tank Size	310	390
OTHER FUNCTIONS AND PROTECTION	Function Description	Digital temperature control, horizontal foot, supply side flow check valve	Digital temperature control, horizontal foot, supply side flow check valve
	Power Protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection	Electrical disconnect with locking capability, overcurrent protection, phase sequence/phase loss protection
	Machine Protection	Compressor overheating protection, high and low pressure protection, over temperature protection, flow protection, low level protection, anti-freezing protection	Compressor overheating protection, high and low pressure protection, over temperature protection, flow protection, low level protection, anti-freezing protection
MACHINE DESCRIPTION	lbs (kg) Weight	1334 (605)	1654 (750)
	Dimensions (L×W×H) In	89.75x34.75x72.5	94.5x45.25x86.75



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