CALM Series





INDUSTRY STANDARD SLEEVE

16×42"

Packaged Terminal AIR CONDITIONERS

C42 fixed amperage

Fixed Cord/Amperage

-- non-inverter chassis in 20amp and 30amp fixed cord configurations.

U42 flexible amperage

Flexible Amperage/Heater

-- non-inverter chassis, flexible to use 15, 20, or 30A cords for 2, 3 or 5kW of electric heat.

142 inverter

Highest Efficiency & Incredibly Quiet

-- modulating inverter chassis for quiet industry leading efficiency.

non-inverter non-inverter non-inverter non-inverter Poor temperature control = overcooling Frequent start-stop of compressor Louder and more power consumption Reach Setpoint Faster i42 inverter Minimal temperature fluctuation Efficient use of energy Smoother and Quieter



Dependable by Design.

Premium Components -- components are carefully selected and integrated into designs to provide exceptional reliability, durability, low sound, and long-life.

Loaded with Features.

Easy to Configure -- dipswitches and simple LED touchpad controls make versatile chassis easy to configure to specific applications.

Room Freeze Protection -- automatically maintains room above freezing.

Front Desk Ready -- front desk control by standard 24 VAC signals.

Fan Cycle Control -- select continuous fan or fan cycling.

Electronic Temperature Limiting -- flexible heat and cool range limits.

Filtered Fresh Air Intake -- by concealed manual control.

Random Compressor Restart -- prevent power surges after power outages.

Electronic Defrost Control -- more run time in the heat pump mode.

Distributed by:



* 1ST YEAR PARTS AND LABOR 2ND TO 6TH YEAR COMPRESSOR PARTS FREE PARTS SHIPPING OPTIONAL 6 YEAR COMPRESSOR LABOR

Accessories.

Stamped Grille - durable light-weight aluminum
Architectural Grille - aluminum louvers+ high tensile rods.
Wall Sleeve Foldable - insulated powder-coated galvanized steel
Wall Sleeve Assembled - insulated powder-coated galvanized steel
Duct Kit - insulated powder-coated galvanized steel
Sub-Base - powder-coated galvanized steel
Wall Thermostats - wireless & wired
Drain Kit

















C42 fixed amperage

INDUSTRY STANDARD SLEEVE

16×42"

The C42 offers a PTAC Series with durability and ease-ofservice as the drivers of engineering design.

C42 has a new large indoor cross-flow fan designed to produce both higher static pressure airflow, and class-leading sound characteristics.

A new room enclosure was designed for a modern subtle clean look, with durability in mind, and for easy access to filters on the tilt-out filter door.



C42 Cooling Chassis with Electric Resistance Heat (230-208V)

Model	\/-l4		Cooling			Reverse-Cycle Heat		Re	esistance He	eat	Min Circuit	MOP*	Electrical	Indoor	Wt.lbs	
Wodel	Voltage	BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU / Hr.	СОР	BTU / Hr	kW	Amps	Amps	Fuse Amps	Plug (Nema)	CFM H/L°	Nt/Gross
C42ED07K00E6	230-208	7400/7200	11.9	2.8/3.0	620/605	0.21	1	-	-	-	-	15	15	6-15P	425/366	94/105
C42ED07K25E6	230-208	7400/7200	11.9	2.8/3.0	620/605	0.21	-	-	10200/8300	2.5	11.5/10.4	15	15	6-15P	425/366	94/105
C42ED07K30E7	230-208	7400/7200	11.9	2.8/3.0	620/605	0.21	-	-	10200/8300	3.0	13.2/12.0	17	20	6-20P	425/366	94/105
C42ED09K00E6	230-208	9500/9300	11.4	3.7/4.0	835/815	1.16	-	-	-	-	-	15	15	6-15P	413/366	94/105
C42ED09K25E6	230-208	9500/9300	11.4	3.7/4.0	835/815	1.16	-	-	10200/8300	2.5	11.5/10.4	15	15	6-15P	413/366	94/105
C42ED09K36E7	230-208	9500/9300	11.4	3.7/4.0	835/815	1.16	-	-	12300/10000	3.6	15.9/14.3	20	20	6-20P	413/366	94/105
C42ED12K00E6	230-208	12200/12000	10.7	5.0/5.5	1140/1120	2.18	-	-	-	-	-	15	15	6-15P	443/384	100/111
C42ED12K36E7	230-208	12200/12000	10.7	5.0/5.5	1140/1120	2.18	-	-	12300/10000	3.6	15.9/14.3	20	20	6-20P	443/384	100/111
C42ED12K50E8	230-208	12200/12000	10.7	5.0/5.5	1140/1120	2.18	-	-	17100/13900	5.0	21.9/19.8	27	30	6-30P	443/384	100/111
C42ED15K00E6	230-208	14700/14500	10.0	6.4/7.0	1470/1450	3.27	,	-	-	-	-	15	15	6-15P	472/413	108/119
C42ED15K50E8	230-208	14700/14500	10.0	6.4/7.0	1470/1450	3.27		-	17100/13900	5.0	21.9/19.8	27	30	6-30P	472/413	108/119

C42 Cooling Chassis with Heat Pump (230 - 208V)

C42 Cooling Cha	ssis with H	leat Pump (23	0 - 208V)													
Model	Voltage	Cooling					Reverse-Cy	Reverse-Cycle Heat		esistance He	eat	Min Circuit	MOP*	Electrical Plug	Indoor	Wt.lbs
Wodel	voltage	BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU / Hr.	СОР	BTU / Hr	kW	Amps	Amps	Fuse Amps	(Nema)	CFM H/L°	Nt/Gross
C42HD07K25E6	230-208	7200/6800	11.9	2.7/2.8	605/570	0.21	6000/5800	3.4	10200/8300	2.5	11.5/10.4	15	15	6-15P	424/365	95/106
C42HD07K30E7	230-208	7200/6800	11.9	2.7/2.8	605/570	0.21	6000/5800	3.4	10200/8300	3.0	13.2/12	17	20	6-20P	424/365	95/106
C42HD09K25E6	230-208	9200/9000	11.4	3.6/3.9	805/790	1.16	8300/8100	3.4	10200/8300	2.5	11.5/10.4	15	15	6-15P	412/365	95/106
C42HD09K36E7	230-208	9200/9000	11.4	3.6/3.9	805/790	1.16	8300/8100	3.4	12300/10000	3.6	15.9/14.3	20	20	6-20P	412/365	95/106
C42HD12K25E6	230-208	12000/11800	10.6	5.0/5.4	1130/1110	2.18	10800/10500	3.3	10200/8300	2.5	11.5/10.4	15	15	6-15P	441/383	103/114
C42HD12K36E7	230-208	12000/11800	10.6	5.0/5.4	1130/1110	2.18	10800/10500	3.3	12300/10000	3.6	15.9/14.3	20	20	6-20P	441/383	103/114
C42HD12K50E8	230-208	12000/11800	10.6	5.0/5.4	1130/1110	2.18	10800/10500	3.3	17000/13900	5.0	21.9/19.8	27	30	6-30P	441/383	103/114
C42HD15K50E8	230-208	14700/14500	10.0	6.4/7.0	1470/1450	3.27	13600/13400	3.2	17000/13900	5.0	21.9/19.8	27	30	6-30P	471/412	109/120

C42 Cooling Chassis with Heat Pump (277V)

Model	Voltage	Cooling						Reverse-Cycle Heat		esistance He	eat	Min Circuit MOP		Electrical Plug	Indoor	Wt.lbs
WIOGEI	voitage	BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU / Hr.	COP	BTU / Hr	kW	Amps	Amps	Fuse Amps	(Nema)	CFM H/L°	Nt/Gross
C42HC07R20E2	265	7000	11.9	2.3	590	0.38	6100	3.4	6800	2.0	7.8	15	15	7-20P	388/265	95/106
C42HC09R30E2	265	9200	11.4	3.1	805	1.36	8100	3.4	10200	3.0	11.5	15	15	7-20P	388/265	100/111
C42HC12R30E2	265	12000	10.5	4.4	1145	2.50	11000	3.2	10200	3.0	11.5	15	15	7-20P	400/372	104/115
C42HC12R50E3	265	12000	10.5	4.4	1145	2.50	11000	3.2	17000	5.0	19.0	25	25	7-30P	400/371	116/127
C42HC15R50E3	265	15000	10.1	5.7	1485	3.64	14000	3.1	17000	5.0	19.0	25	25	7-30P	400/371	116/127

^{*}Time Delay Fuse or HCAR Circuit Breaker ---- °Dry Coil

Flexible Amperage/Heater -- non-inverter flexible chassis, accepts 15, 20, 30A cords for 2, 3 or 5kW of electric heat. Chassis and power cord are purchased separately.

INDUSTRY STANDARD SLEEVE 16 x 42"

The U42 is a PTAC Series with durability and ease-of-service as the drivers of engineering design.

A new room enclosure for a modern subtle clean look, with durability in mind, and for easy access to filters on the tilt-out filter door.

U42 has a new large cross-flow fan with higher static pressure airflow, and class-leading sound characteristics.





U42EC Air Conditioner with Electric Resistance Heat

			Cooling					Reverse-Cycle Heat		Electric Heat kW OPTIONS			Indoor dB(A)	Indoor CFM	Vent	Wt.lbs.
Voltage	Hz	Model	BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU/Hr.	СОР	2.0	3.0	5.0	H/L	H/L°		Nt/Grss
230-208	60	U42EC07KxxE	7200/6800	11.9/11.9	2.7/2.8	600/570	0.6	NA	NA	YES	YES	NO	43/35	352/250	50	112/132
"	"	U42EC09KxxE	9500/9300	11.4/11.7	3.7/3.9	835/795	1.3	"	"	YES	YES	NO	"	"	ıı	"
"	"	U42EC12KxxE	12200/11800	10.5/10.7	5.1/5.4	1140/1100	2.4	"	"	YES	YES	YES	44/36	405/333	75	116/137
"	"	U42EC15KxxE	14500/14300	10.2/10.2	6.3/6.8	1420/1400	3.6	"	"	YES	YES	YES	"	"	ıı	118/139
265	"	U42EC07RxxE	7000	12.1	2.3	580	0.6	II	"	YES	YES	NO	43/35	388/265	50	112/132
"	"	U42EC09RxxE	9200	11.5	3.2	800	1.3	"	"	YES	YES	NO	"	382/259	ıı	112/132
"	"	U42EC12RxxE	12000	10.6	4.3	1130	2.4	"	"	YES	YES	YES	44/36	400/312	75	116/137
"	II .	U42EC15RxxE	15000	10.5	5.4	1425	3.6	"	"	YES	YES	YES	ıı	II	ıı	118/139

^{*}Time Delay Fuse or HCAR Circuit Breaker ---- °Dry Coil

U42HC Heat Pump with Electric Resistance Backup Heat

				Cooling					Reverse-Cycle Heat		Electric Heat kW OPTIONS			Indoor		
Voltage	Hz	Model	BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU/Hr.	СОР	2.0	3.0	5.0	dB(A) H/L	CFM H/L°	Vent CFM	Wt.lbs. Nt/Grss
230-208	60	U42HC07KxxE	7200/6800	11.9/11.9	2.7/2.8	605/570	0.6	6400/6100	3.3/3.3	YES	YES	NO	43/35	352/250	50	113/133
"	"	U42HC09KxxE	9500/9300	11.4/11.7	3.7/3.9	835/795	1.3	8500/8300	3.5/3.5	YES	YES	NO	"	"	"	"
II	"	U42HC12KxxE	12200/11800	10.5/10.7	5.1/5.4	1140/1100	2.4	11000/11800	3.4/3.5	YES	YES	YES	44/36	405/333	75	117/138
II	"	U42HC15KxxE	14500/14300	10.2/10.2	6.3/6.8	1420/1400	3.6	13600/13200	3.4/3.3	YES	YES	YES	ıı	II .	II	119/140
265	"	U42HC07RxxE	7000	12.1	2.3	580	0.6	6100	3.4	YES	YES	NO	43/35	388/265	50	113/133
II	"	U42HC09RxxE	9200	11.5	3.2	800	1.3	8500	3.5	YES	YES	NO	"	382/259	"	"
II	"	U42HC12RxxE	12000	10.6	4.3	1130	2.4	11400	3.3	YES	YES	YES	44/36	400/312	75	117/138
"	"	U42HC15RxxE	15000	10.5	5.4	1425	3.6	14000	3.2	YES	YES	YES	ıı	"	"	119/140

^{*}Time Delay Fuse or HCAR Circuit Breaker ---- °Dry Coil

U42EC/U42HC Electric Heat Output -- Power Cord Selection Chart

Power Cord Selection: CALM U42 PTACs and PTHP's are not equipped with a power cord. A power cord MUST be purchased separately based on the voltage and amperage of the electrical circuit. Electric heating capacity of the chassis will be determined by the power cord which is selected enarately 30 Amp cords must not be used with 7000 or 9000 RTIJ/Hr units

separately. 30 Amp cords must not be used with 7000 or 9000 BTO/Hr. units.											
			Electric Heat kW		Heating	kW at Rated	Total Heating				
Voltage	Hz	Part Number of Power Cord	OPTIONS	*MOP Amps	BTU/Hr.	Voltages	Amps				
230-208	60	ACC42POWER15A	2.0	15	6500/5500	2.0/1.65	9.0/8.2				
=	"	ACC42POWER20A	3.0	20	10200/8300	3.0/2.45	13.2/12.0				
"	"	ACC42POWER30A	5.0	30	17000/13900	5.0/4.10	21.9/19.8				
265	"	ACC42POWER15A-277V	2.0	15	6800	2.0	7.8				
"	"	ACC42POWER20A-277V	3.0	15	10200	3.0	11.5				
"	"	ACC42POWER30A-277V	5.0	25	17000	5.0	19.1				





Maximum Overcurrent Protection // Branch Circuit Fuse Amps





42 inverter

INDUSTRY STANDARD SLEEVE 16×42"



Highest Efficiency

-- in real-world conditions the modulating inverter chassis means that the inefficient start/stop of the compressor is eliminated.





Receptacle // Prise











Consistent Dehumification -- modulating inverter technology ensures

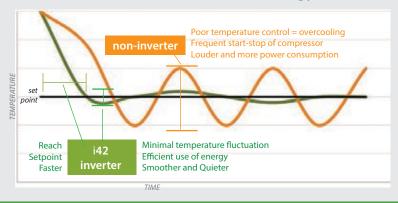
a cold condensing evaporator coil in part-load to keep comfortable humidity levels, eliminating clamminess in humid conditions.

Incredibly Quiet

-- inverter compressor, condensor fan, and evaporator fan slow to match cooling and heating demand of room, reducing operating sound levels.

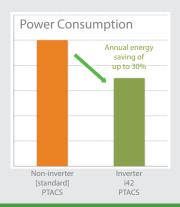
-- elimination of compressor start/stop means the room is much quieter in part-load conditions

i42: The Benefits of Inverter Technology



Non-inverter PTACS at full RPM or zero RPM (on or off) -- the on/off compressor cycling in part-laod conditions of electric power

i42 Inverter PTACS slow the compressor RPM to match the part-load power required -- a substantial reduction in power consumption occurs



The i42 Inverter Heatpump incorporates state-of-the-art INVERTER technology not found in any other PTAC, yet it fits into standard 16 x 42" PTAC sleeves. The i42 is the culmination of years of research to develop a PTAC to clearly lead the market with the lowest energy consumption, most consistent dehumidification, best conditioned air, and the lowest sound levels.

Although published EER's will be similar to other PTACs, based on laboratory testing simulating real-world installations, up to a 30% reduction in energy consumption can be expected with the Applied Comfort i42 when compared to other PTACs!

Dramatic energy savings and sound reduction is achieved by modulating the output of the PTAC to match the cooling or heating demands of the room, eliminating costly and noisy compressor cycling.

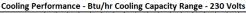
INVERTER HEATPUMP PTHP Series

i42 inverter uses advanced inverter control with Mitsubishi inverter compressors to provide the highest efficiency cooling and heating, lowest noise levels, and the best temperature and humidity control under part-load conditions. i42 inverter is engineered to modulate it's components to eliminate inefficient 'cycling' on and off of the compressor, reduce power consumption under part-load demand, and maintain a consistent evaporator condensing surface for humidity control.

i42 inverter PTHP are manufactured with a power-cord attached to the chassis.

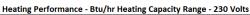
230/208V	i42	Heat Pump with	Electric Backup H	eat
230/2084	i42HC09K36E7	i42HC12K36E7	i42HC15K36E7	i42HC15K50E8
LCDI Plug	NEMA #6-20P 20Amp	NEMA #6-20P 20Amp	NEMA #6-20P 20Amp	NEMA #6-30P 30Amp
Cooling BTUH Operating Range (**)	9600/9400	12200/12200	15200/15000	15200/15000
EER Range (**)	11.7/11.7	11.5/11.5	10.8/10.8	10.8/10.8
Dehumid.Pints/hr**	1.1/1.3	1.8/2.1	3.4/3.8	3.4/3.8
Minimum Circuit Amps Cooling	19.9	19.9	19.9	27.4
Reverse-cycle Heating BTUH (**)	8800/8500	11900/11800	13800/13600	13800/13600
C.O.P.	3.6/3.6	3.6/3.6	3.5/3.4	3.5/3.4
Heat Pump Amps**	3.1/3.4	4.3/4.7	5.1/5.5	5.1/5.5
Heat Pump Watts**	720/695	970/960	1170/1160	1170/1160
Backup Electrical Heat kW	3.6	3.6	3.6	5
Airflow CFM (Hi/Lo)	420/290	470/360	470/360	470/360
Indoor Sound dB(A) (Hi/Lo)	50/42	52/46	52/46	52/46
Outdoor Sound dB(A)	67	68	68	68
Net Wt/Ship Wt.lb	106/119	110/123	110/123	110/123

^{**} Although the i42 is a variable output (inverter) PTAC, ASHRAE test for PTACs are at only a static output. The data corresponding to ** were generated by programming the chassis to be static BTU/hr output (non-variable). All data was collected as standard test conditions.





= EER measured at Normal Rating Conditions. Outdoor air termpearture (°C//°F); DB 35//95; WB 23.9//75, Indoor Air Temperature (°C//°F); DB 26.7//80; WB 19.4//67





11900 actual for 12K at rating condition

COP measured at Normal Rating Conditions. Outdoor air termpearture (°C//°F): DB 8.3//47; WB 6.1//43. Indoor Air Temperature (°C//°F): DB 21.1//70; WB 15.6//60

Specifications Subject to Change Without Notice

See other CALM Series Solutions from Applied Comfort: www.ptacs.com

