

# CALM Series



INDUSTRY STANDARD SLEEVE

**16 x 42"**

Packaged Terminal AIR CONDITIONERS

Technology Options

## C42 fixed amperage

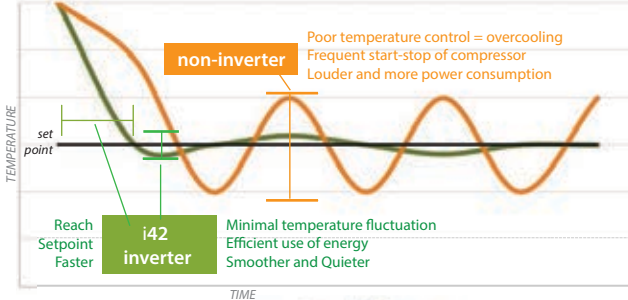
Fixed Cord/Amperage  
-- non-inverter chassis in 20amp and 30amp fixed cord configurations.

## 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.

## i42 inverter

Highest Efficiency & Incredibly Quiet  
-- modulating inverter chassis for quiet industry leading efficiency.



### 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.

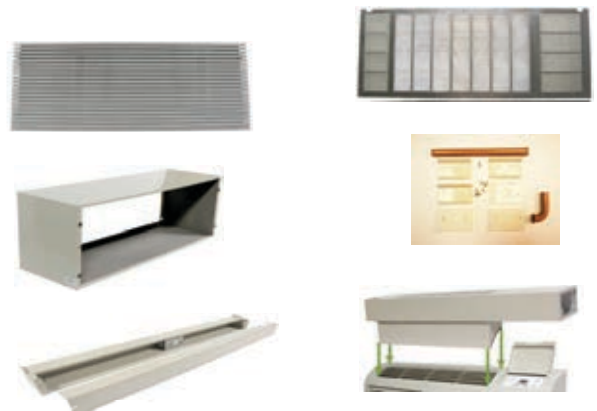
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\* 1ST YEAR PARTS AND LABOR  
2ND TO 6TH YEAR COMPRESSOR PARTS  
FREE PARTS SHIPPING  
OPTIONAL 6 YEAR COMPRESSOR LABOR

### 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

Fixed Cord/Amperage -- non-inverter chassis.



INDUSTRY STANDARD SLEEVE

## 16 x 42"

The C42 offers a PTAC Series with durability and ease-of-service 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	Voltage	Cooling					Reverse-Cycle Heat		Resistance Heat			Min Circuit Amps	MOP* Fuse Amps	Electrical Plug (Nema)	Indoor CFM H/L*	Wt.lbs Nt/Gross
		BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU / Hr.	COP	BTU / Hr	kW	Amps					
C42ED07K00E6	230-208	7400/7200	11.9	2.8/3.0	620/605	0.21	-	-	-	-	-	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 Chassis with Heat Pump (230 - 208V)																
Model	Voltage	Cooling					Reverse-Cycle Heat		Resistance Heat			Min Circuit Amps	MOP* Fuse Amps	Electrical Plug (Nema)	Indoor CFM H/L*	Wt.lbs Nt/Gross
		BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU / Hr.	COP	BTU / Hr	kW	Amps					
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		Resistance Heat			Min Circuit Amps	MOP* Fuse Amps	Electrical Plug (Nema)	Indoor CFM H/L*	Wt.lbs Nt/Gross
		BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU / Hr.	COP	BTU / Hr	kW	Amps					
C42HD07R20E2	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
C42HD09R30E2	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
C42HD12R30E2	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
C42HD12R50E3	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
C42HD15R50E3	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

Specifications Subject to Change Without Notice

# U42 flexible amperage

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.

2.0, 3.0, or 5.0 kW electric heat is determined by power cord ordered separately.



## U42EC Air Conditioner with Electric Resistance Heat

Voltage	Hz	Model	Cooling					Reverse-Cycle Heat		Electric Heat kW OPTIONS			Indoor dB(A) H/L	Indoor CFM H/L°	Vent CFM	Wt.lbs. Nt/Grss
			BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU/Hr.	COP	2.0	3.0	5.0				
<b>230-208</b>	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	"	"	"	"
		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	"	"	"	118/139
<b>265</b>	"	U42EC07RxxE	7000	12.1	2.3	580	0.6	"	"	YES	YES	NO	43/35	388/265	50	112/132
		U42EC09RxxE	9200	11.5	3.2	800	1.3	"	"	YES	YES	NO	"	382/259	"	112/132
		U42EC12RxxE	12000	10.6	4.3	1130	2.4	"	"	YES	YES	YES	44/36	400/312	75	116/137
		U42EC15RxxE	15000	10.5	5.4	1425	3.6	"	"	YES	YES	YES	"	"	"	118/139

\*Time Delay Fuse or HCAR Circuit Breaker ---- \*Dry Coil

## U42HC Heat Pump with Electric Resistance Backup Heat

Voltage	Hz	Model	Cooling					Reverse-Cycle Heat		Electric Heat kW OPTIONS			Indoor dB(A) H/L	Indoor CFM H/L°	Vent CFM	Wt.lbs. Nt/Grss
			BTU/Hr.	EER	Amps	Watts	Pts/hr.	BTU/Hr.	COP	2.0	3.0	5.0				
<b>230-208</b>	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	"	"	"	"
		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
		U42HC15KxxE	14500/14300	10.2/10.2	6.3/6.8	1420/1400	3.6	13600/13200	3.4/3.3	YES	YES	YES	"	"	"	119/140
<b>265</b>	"	U42HC07RxxE	7000	12.1	2.3	580	0.6	6100	3.4	YES	YES	NO	43/35	388/265	50	113/133
		U42HC09RxxE	9200	11.5	3.2	800	1.3	8500	3.5	YES	YES	NO	"	382/259	"	"
		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	"	"	"	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 separately. 30 Amp cords must not be used with 7000 or 9000 BTU/Hr. units.

Voltage	Hz	Part Number of Power Cord	Electric Heat kW OPTIONS	*MOP Amps	Heating BTU/Hr.	kW at Rated Voltages	Total Heating Amps
<b>230-208</b>	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
<b>265</b>	"	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



Specifications Subject to Change Without Notice



Applied Comfort Products Inc.  
TRUSTED MANUFACTURER OF HIGH QUALITY Packaged Terminal Air Conditioners



# i42 inverter

INDUSTRY STANDARD SLEEVE

## 16 x 42"

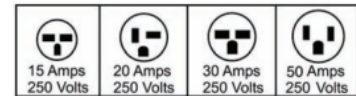


### Highest Efficiency

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



Receptacle // Prise



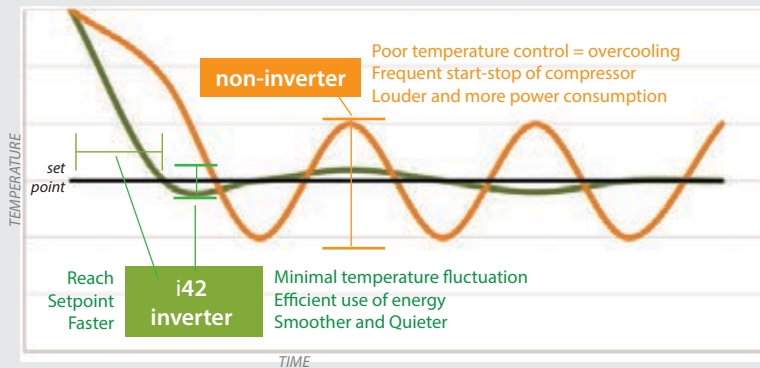
### Consistent Dehumidification

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

### Incredibly Quiet

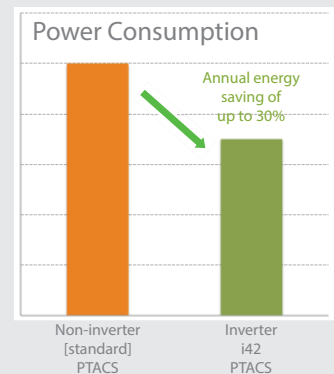
-- inverter compressor, condenser fan, and evaporator fan slow to match cooling and heating demand of room, reducing operating sound levels.  
-- elimination of compressor start/stop means the room is much quieter in part-load conditions

## i42 : The Benefits of Inverter Technology



**Non-inverter PTACs**  
run the compressor at full RPM or zero RPM (on or off)  
-- the on/off compressor cycling in part-load conditions wastes substantial amounts of electric power

**i42 Inverter PTACs**  
slow the compressor RPM to match the part-load cooling or heating 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.

**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 its 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 Heat			
	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.**

**Cooling Performance - Btu/hr Cooling Capacity Range - 230 Volts**

BTU/hr	6000	6200	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400	8600	8800	9000	9200	9400	9600	9800	10000	10200	10400	10600	10800	11000	11200	11400	11600	11800	12000	12200	12400	12600	12800	13000	13200	13400	13600	13800	14000	14200	14400	14600	14800	15000	15200	15400	15600	15800	16000	16200	16400	16600	16800	17000												
i42HC09K	12.7																			11.7																	10.3																															
i42HC12K																	12.0																	11.5																	11.1																	
i42HC15K																	12.0																	10.8																	10.6																	

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

**Heating Performance - Btu/hr Heating Capacity Range - 230 Volts**

BTU/hr	5000	5200	5400	5600	5800	6000	6200	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400	8600	8800	9000	9200	9400	9600	9800	10000	10200	10400	10600	10800	11000	11200	11400	11600	11800	12000	12200	12400	12600	12800	13000	13200	13400	13600	13800	14000	14200	14400	14600	14800	15000																	
i42HC09K	3.66																			3.60																	3.58																															
i42HC12K																	3.50																	3.60																	3.47																	
i42HC15K																	3.70																	3.50																	3.55																	

**\*11900 actual for 12K at rating condition**  
**XX.X** = COP measured at Normal Rating Conditions. Outdoor air temperature (°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](http://www.ptacs.com)

**U42 flexible amperage**

Flexible Amperage/Heater  
 -- non-inverter chassis, flexible to use  
 15, 20, or 30amp cords for 2, 3 or 5kW of electric heat.

**C42 fixed amperage**

Fixed Cord/Amperage  
 -- non-inverter chassis  
 in 20amp and 30amp fixed cord configurations.