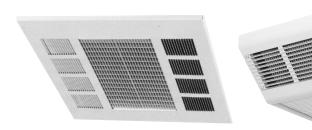


FFCH SERIES

COMMERCIAL DOWNFLOW CEILING MOUNTED HEATERS

APPLICATIONS

Type FFCH ceiling-mounting fanforced heaters are designed for
commercial and industrial areas
requiring electric fan-forced heat.
Capacities are 2,000 to 5,000 watts.
Type FFCH-SE surface enclosures
are designed to mount flat on the ceiling and extend only six inches into the
room. Type FFCH-RE enclosures
have no protrusions outside the
recess box, allowing the heater to
recess only seven inches into ceiling
space. Mounts into permanent ceiling
with trim ring.



In the ceiling. . .

or on it!

FEATURES

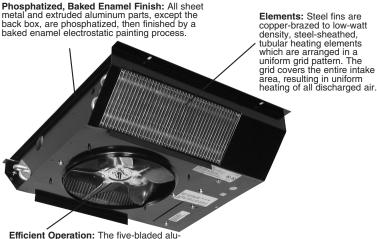
BUILT-IN FAN DELAY — Space temperature is controlled by a wall or unit-mounted thermostat. When the thermostat calls for heat, the heating elements and fan energize. When the thermostat is satisfied, the elements shut off, but the fan continues to operate until all of the heated air is discharged. This feature avoids exposing the heater to residual heat, thus achieving a high comfort level and longer component life.

AUTOMATIC THERMAL CUTOUT — A thermal cutout shuts off the heater in the event of over-heating and reactivates the heater when the temperature returns to normal.

MULTIPLE PHASE HEATERS — The 208 and 240 volt heaters can be field converted from single to three-phase operation. 277 volt single-phase heater is also available.

MULTIPLE WATTAGE HEATER SELECTIONS — The 5,000 watt heater can be field converted to 3,800 watts or 2,500 watts, and the 4,000 watt heater is convertible to 3,000 or 2,000 watts.

THUMB PINS align and temporarily hold the enclosure cover to the heating section freeing both hands to finish installation.



Efficient Operation: The five-bladed aluminum fan and the rugged impedance-protected, totally-enclosed motor, achieve efficient operation.

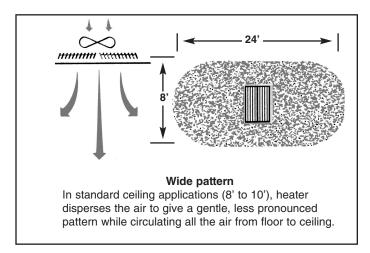
Deliver heat where you want it... in vestibules, hallways, workshops, restrooms and entry ways.

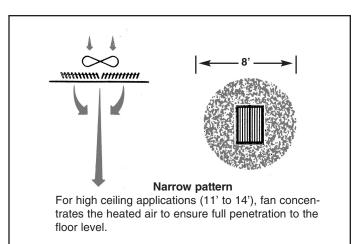
Type FFCH-RE enclosures also mount easily into standard 2 x 2 ceiling grids

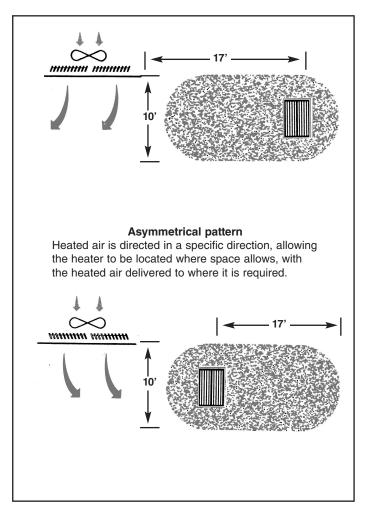


ZBL-BFFCH (10-11)

Totally adjustable airflow...even from 14 ft. ceilings!







SELECTION CHART

CATALOG #	VOLTS	PHASE ²	KW¹	BTU/HR	AMPS ³	WIRE SIZE	CFM	°F∆T	WEIGHT (LBS.)
FFCH-548	208	1-3			19.2/14.4/9.6				
FFCH-542	240	1-3	4/3/2	13.7/10.2/6.8	16.7/12.5/8.3	AWG 10	300	42	27
FFCH-547	277	1			14.4/10.8/7.2	1			
FFCH-558	208	1-3	5/3.8/2.5		24.0/18.3/12.0	AWG 10	300	45	27
FFCH-552	240	1-3			20.8/15.8/10.4				
FFCH-557	277	1			18.1/13.7/9.0				
FFCH-SE	Surface Mounting Enclosure only — To be used with above heater sections. Dimensions: 20"L x 161/2"W x 53/4"D.								10
FFCH-RE	Recess Mounting Enclosure only — To be used with above heater sections. Dimensions: 23³/₄"L x 23³/₄"W x 7"D.							18	
FFCHSENW	Surface mounted Northern White — To Be Used With Above Heater Section. Dim. 20"L x 16 1/2"W x 5 3/4"D.							10	
FFCHRENW	Recessed mounted Northern White — To Be Used With Above Heater Sections. Dim. 23 3/4"L x 23 3/4W x 7"D.							18	

ACCESSORIES

Addition						
CATALOG NO.	FIELD INSTALLED KITS					
FFCH-T	Thermostat SPST Range 45° to 98°F					
FFCH-24R	Relay (Time Delay 45-60 sec. to close when energized) required 120 volt supply from remote source.					
FFCHR-12	Relay (Time Delay 45-60 sec. to close when energized) required 120 volt supply from remote source.					
FFFCH-DS	Power Disconnect Switch (3-Pole) 30 amps, 600 volts, 3Ø, 60Hz.					
FFCH-TK	Trim Kit for mounting on permanent ceiling (cannot be factory installed).					
FFCH-TR4	208/240V Primary Transformer/24V sec. and 24V holding coil control relay.					
FFCH-TR7	277V Primary Transformer/24V sec. and 24V holding coil control relay.					

ARCHITECT'S & ENGINEER'S SPECIFICATIONS*

The heating equipment shall include an electric, ceiling-mounted type FFCH, Series 500 fan-forced air heater suitable for large area heating as manufactured by Berko, A Marley Engineered Products Brand, Bennettsville, SC. The heater shall be UL Listed. The heater shall be designed for surface, recess or T-Bar mounting. For surface mounting a Berko FFCH-SE surface enclosure shall be used. For T-Bar mounting a Berko FFCH-RE recess enclosure shall be used. For recessed mounting in a permanent ceiling a Berko FFCH-RE recess enclosure and FFCH-TK trim kit shall be used. The heaters shall be factory wired for single-phase operation and field convertible to three-phase operation by removing one jumper wire, and relocating one wire. The heaters should be factory wired for full wattage and field convertible to 75% or 50% wattage by the removal of one or two wires respectively.

HEATER SECTION: The heater section shall consist of 20 gauge steel chassis on which are mounted the heating elements, fan motor and blade, fan control, thermal cutout and 3-pole contactor. Heater section shall be completely prewired.

HEATING ELEMENTS: The heating element shall be guaranteed for five years and shall be non-glowing design consisting of 80/20 NiCh resistance wire, enclosed in a steel sheath, to which steel plate fins are brazed. The elements shall cover the entire air intake area to ensure uniform heating of all discharged air.

MOTOR AND CONTROLS: The fan motor shall be impedence-protected, permanently lubricated and with totally-enclosed rotor. Fan control shall be bi-metallic, snap-action type and shall activate fan after the heating element reaches operating temperature, and continue to operate the fan after the thermostat is satisfied and until all heated air has been discharged. Thermal cutout shall be bi-metallic snap-action type designed to automatically shut off the heater in the event of overheating and reactivate the heater when the temperature returns to normal.

OPERATIONAL CONTROLS: Thermostat, disconnect switch and all interlock relays shall be installed within the heater enclosure.

RECESS ENCLOSURE: The back box shall be designed for duty as a recessed rough-in box in masonry, T-Bar or frame ceiling construction. The back box shall be 20 gauge galvanized steel and shall contain knockouts through which field wiring leads are brought. Enclosure to recess into a maximum 7 inches of ceiling space. The louvered recess faceplate shall be 20 gauge cold rolled steel, phosphatized, then electrostatically painted Navajo White by a baked enamel process.

SURFACE ENCLOSURE: The surface mounting plate shall be designed for duty as a rough-in box on masonry, T-Bar or frame ceiling construction. The surface mounting plate shall be 20 gauge galvanized steel and shall contain knockouts through which field wiring leads are brought. Enclosure to extend a maximum of 6 inches into the heated space.

The louvered surface wrapper shall be a contoured aluminum extrusion and 20 gauge sheet metal combination with rounded corners. The surface wrapper shall be electrostatically painted Navajo White by a baked enamel process.

*Berko reserves the right to change specifications without prior notice.



