



# INDUSTRIAL BELT DRIVE 30

## Direct Gas Heated Air Curtain 100° Temp. Rise

### Data Sheet

For Door Heights To 30' (environmental separation)

#### STANDARD CONSTRUCTION

- Single speed T.E.F.C. motor - belt drive
- Gray powder coated exterior (Optional: Custom Color or Stainless)
- Split cabinet construction for fan assembly removal
- Removable access panels
- Top Mounting only
- Front air intake (Optional: top)
- Motor location top right (Optional: top left, front left or front right)

- Factory mounted duct transition with bottom access panels
- Factory mounted modulating direct fired heater with FM/IRI gas train
  - Factory mounted wired heater control panel
  - Steel cabinet with gray finish
  - Spark ignited intermittent pilot

**2 Year  
Limited  
Warranty**



MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor @ HP	Heater Output (MBH)	Gas Train Size	Air Temp. Rise (°F)	Net Wt. Air Curtain (lbs)	Net Wt. Duct Trans. (lbs)	Net Wt. Burner Box (lbs)
IBC30-1096D	96.00	7,590	3,800	20,240	79%	15.90	1 @ 15	2,196.3	1 1/4"	100°	960	104	450
IBC30-1108D	108.00	6,429	3,215	19,287	86%	14.60	1 @ 15	2,092.7	1 1/4"	100	1,000	119	450
IBC30-1120D	116.00	7,395	3,800	24,650	89%	20.80	1 @ 20	2,674.6	1 1/2"	100°	1,050	129	480
IBC30-1132D	132.00	6,868	3,434	25,183	87%	20.40	1 @ 20	2,732.7	1 1/2"	100°	1,150	149	480
IBC30-1144D	144.00	6,429	3,215	25,716	86%	19.50	1 @ 20	2,789.9	1 1/2"	100°	1,250	163	480
IBC30-1156D	156.00	5,996	2,998	25,983	85%	20.80	1 @ 20	2,819.5	1 1/2"	100°	1,350	178	480
IBC30-1168D	168.00	7,330	3,665	34,206	86%	26.40	1 @ 25	3,711.0	1 1/2"	100°	1,450	177	590
IBC30-1180D	180.00	6,948	3,474	34,739	85%	26.60	1 @ 25	3,769.2	1 1/2"	100°	1,550	192	590
IBC30-1192D	192.00	7,590	3,800	40,480	79%	31.80	1 @ 30	4,391.5	2"	100°	1,650	207	640

#### NOTES:

1. Operation at 50 Hz will generate approximately a 17% reduction in performance.
2. Performance data based on AMCA licensed data from unheated units.
3. Maximum leaving air temperature shall not exceed 120°F.
4. Duct transition and direct fired gas heater are factory mounted to air curtain and each require individual support.
5. Gas supply pressure: minimum 1 psi, maximum 5 psi.
6. Vertically mounted Industrial Belt Drive air curtains not available.
7. Gas train size is not the main gas supply line size.

See sheet EP-469 for amp draws/total load requirements.

## MODEL NUMBER CONFIGURATION

### IBC30-1 096 D D-F-T-SS

Series	# of Motors	Opening Width	Heat	Voltage	Intake	Motor Location	Opt. Cabinet Finish
IBC30	1	096" - 192"	D=Direct Gas Heated	D=208/3/60 E=240/3/60 H=480/3/60 I=600/3/60 T=380/3/50	T=Top F=Front	T=Top F=Front	SS=Stainless Steel CC=Custom Color

Sound level measured 10' (3m) from the unit in free field:  
15, 20, 25 & 30 hp motor(s):  
85 dBA, 86 dBA, 87 dBA & 88 dBA

Berner reserves the right to alter specifications without prior notice.

**www.berner.com Berner International Corporation 800.245.4455**  
111 Progress Ave. / New Castle / PA / 16101 / USA

DS-469B  
June, 2015



# INDUSTRIAL BELT DRIVE 30

## Direct Gas Heated Air Curtain Electrical Performance Sheet

		208/3/60 (voltage code D) MOTOR AMP DRAW PER HP			240/3/60 (voltage code E) MOTOR AMP DRAW PER HP			480/3/60 (voltage code H) MOTOR AMP DRAW PER HP		
MODEL	Qty @ HP	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IBC30-1096D IBC30-1108D	1 @ 15	1	43.6	90	1	40.1	80	1	20.0	40
IBC30-1120D IBC30-1132D IBC30-1144D IBC30-1156D	1 @ 20	1	57.0	125	1	50.1	100	1	25.3	50
IBC30-1168D IBC30-1180D	1 @ 25	1	68.6	150	1	62.1	125	1	30.9	60
IBC30-1192D	1 @ 30	1	81.6	175	1	73.0	150	1	36.6	75

		600/3/60 (voltage code I) MOTOR AMP DRAW PER HP			380/3/50 (voltage code T) MOTOR AMP DRAW PER HP		
MODEL	Qty @ HP	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IBC30-1096D IBC30-1108D	1 @ 15	1	15.9	30	1	25.0	40
IBC30-1120D IBC30-1132D IBC30-1144D IBC30-1156D	1 @ 20	1	20.3	40	1	33.6	50
IBC30-1168D IBC30-1180D	1 @ 25	1	24.7	50	1	42.2	60
IBC30-1192D	1 @ 30	1	29.4	60	1	50.6	75

\* Includes 750VA transformer load for gas fired burner panel.

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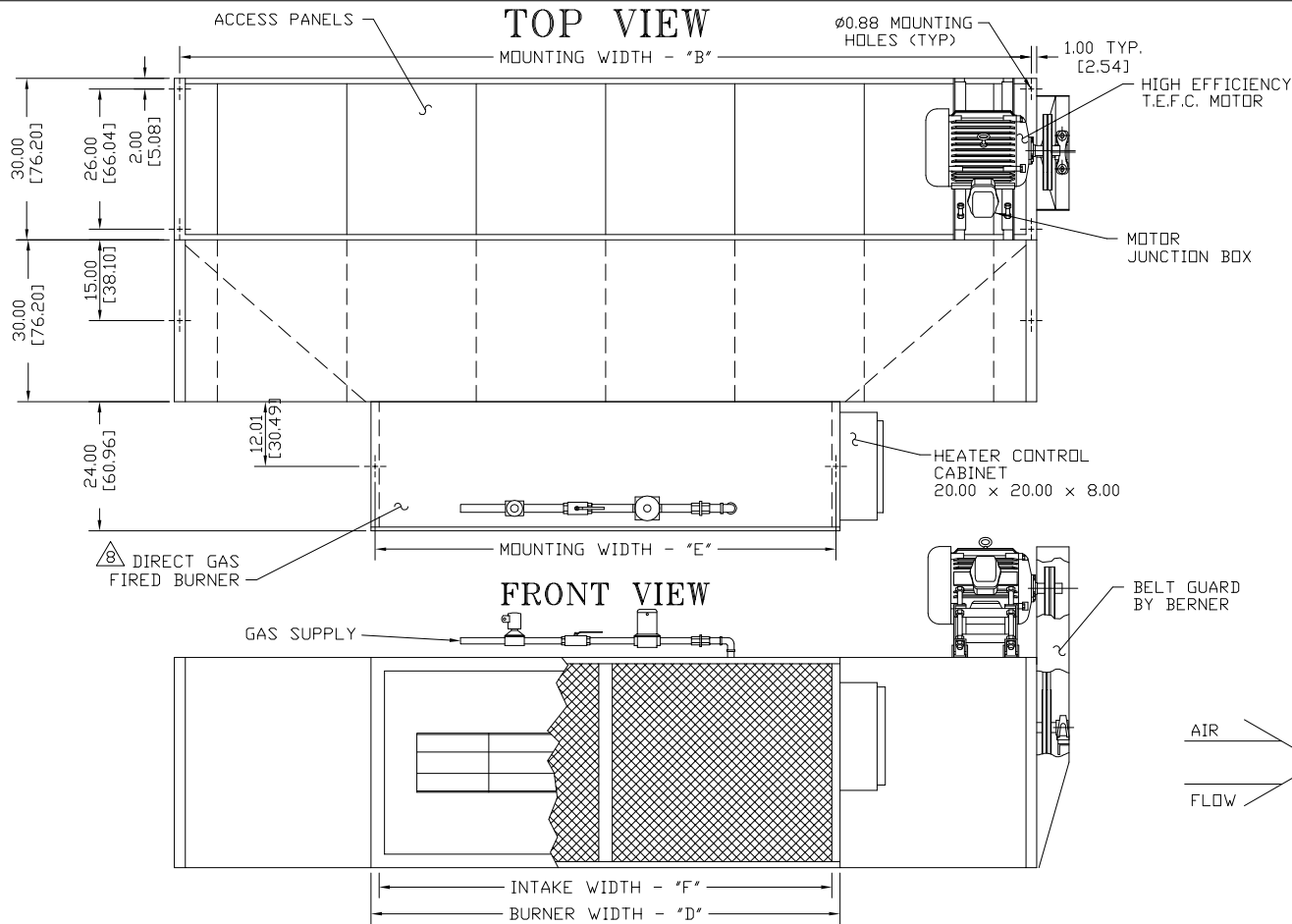
EP-469  
June, 2015

# IBC30

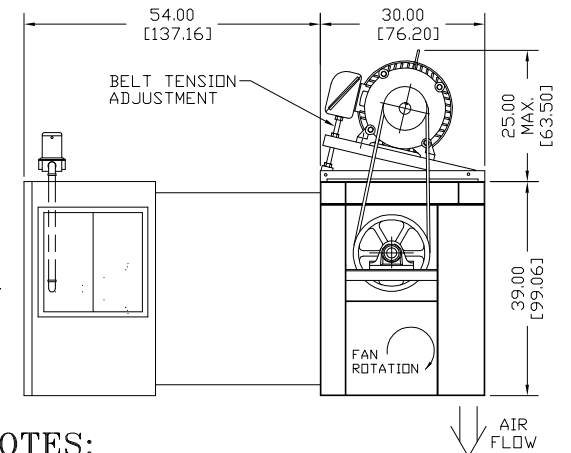
## DIRECT GAS FIRED ONE HEATER SYSTEM FRONT INTAKE TOP MOTOR MOUNT

### CAUTION:

HEATER IS EQUIPPED FOR A MAXIMUM GAS SUPPLY PRESSURE OF 1# TO 5#.



### END VIEW (BELT GUARD REMOVED)



### NOTES:

- ① AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
- ② ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- ③ FIELD VERIFY DIMENSIONS.
- ④ ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- ⑤ ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- ⑥ LETTER "D" IN MODEL NUMBER DESIGNATES, DIRECT GAS HEATED UNIT. "F" DESIGNATES FRONT INTAKE, "T" IS TOP MOTOR.
- ⑦ OPTIONAL CONTROL PANEL AVAILABLE: LEFT HAND MOUNT, RIGHT HAND MOUNT, OR REMOTE. PLEASE SPECIFY.
- ⑧ SUPPORT DIRECT GAS HEATERS SEPARATELY FROM UNIT.
- ⑨ DIMENSIONS IN INCHES [CENTIMETERS].

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	IBC30-DGF1	TITLE: <b>BERNER</b>
DATE	12JUNE14	MODEL IBC30 AIR CURTAIN
BY	S. Beil	DIRECT GAS FIRED - ONE HEATER SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.

# IBC30

## DIRECT GAS FIRED ONE HEATER SYSTEM

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"	BURNER WIDTH "D"	MOUNTING WIDTH "E"	INTAKE WIDTH "F"
IBC30-1096D-FT	96.00 [243.84]	98.00 [248.92]	106.00 [269.24]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IBC30-1108D-FT	108.00 [274.32]	110.00 [279.40]	118.00 [299.72]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IBC30-1120D-FT	116.00 [294.64]	118.00 [299.72]	126.00 [320.04]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IBC30-1132D-FT	132.00 [335.28]	134.00 [340.36]	142.00 [360.68]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IBC30-1144D-FT	144.00 [365.76]	146.00 [370.84]	154.00 [391.16]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IBC30-1156D-FT	156.00 [396.24]	158.00 [401.32]	166.00 [421.64]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IBC30-1168D-FT	168.00 [426.72]	170.00 [431.80]	178.00 [452.12]	120.00 [304.80]	118.50 [300.99]	117.00 [297.18]
IBC30-1180D-FT	180.00 [457.20]	182.00 [462.28]	190.00 [482.60]	120.00 [304.80]	118.50 [300.99]	117.00 [297.18]
IBC30-1192D-FT	192.00 [487.68]	194.00 [492.76]	202.00 [513.08]	120.00 [304.80]	118.50 [300.99]	117.00 [297.18]

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PROJECT		TITLE:	<b>BERNER</b>
LOCATION		MODEL IBC30 AIR CURTAIN	
ARCHITECT		DIRECT GAS FIRED - ONE HEATER SYSTEM	
ENGINEER			
DWG. NO.	IBC16-DGF2		
DATE	13JUNE14		
BY	S. Beil		
REPLACES	-		
BY	-		
			BERNER INTERNATIONAL CORP. NEW CASTLE, PA.