



# INDUSTRIAL DIRECT DRIVE 16

## Direct Gas Heated Air Curtain

### Data Sheet

For Door Heights To 16' (environmental separation)

#### STANDARD CONSTRUCTION

- Single speed T.E.A.O. motor(s) - direct drive
- Gray powder coated exterior (Optional: Custom Color or Stainless)
- Split cabinet construction for fan assembly removal
- Top Mounting only
- Front air intake (Optional: top)
- High efficiency Pro-V Nozzle

- 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(s) @ 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)
IDC16-1060D	60.00	5,145	3,302	5,359	85%	2.80	1 @ 3	232.7	3/4"	40°	370	82	220
IDC16-1072D	72.00	5,005	2,944	6,256	91%	2.90	1 @ 3	272.2	3/4"	40°	410	97	220
IDC16-1084D	84.00	4,644	2,732	6,772	89%	3.00	1 @ 3	293.9	3/4"	40°	450	112	220
IDC16-1096D	96.00	5,352	3,148	8,920	87%	4.10	1 @ 5	387.6	3/4"	40°	550	121	260
IDC16-1108D	108.00	5,236	3,080	9,817	86%	4.20	1 @ 5	426.0	3/4"	40°	670	136	260
IDC16-1120D	117.00	6,012	3,627	12,526	87%	4.80	1 @ 7.5	544.4	3/4"	40°	705	136	340
IDC16-1132D	132.00	5,602	3,296	12,839	86%	4.90	1 @ 7.5	557.2	3/4"	40°	755	154	340
IDC16-1144D	144.00	5,225	3,074	13,062	85%	5.40	1 @ 7.5	567.1	3/4"	40°	795	169	340
IDC16-1156D	156.00	4,943	2,908	13,388	84%	5.50	1 @ 7.5	581.9	3/4"	40°	845	178	380
IDC16-2168D	168.00	5,203	3,061	15,176	89%	7.00	1 @ 5, 1 @ 3	658.8	3/4"	40°	950	193	380
IDC16-2180D	180.00	5,143	3,026	16,073	87%	7.10	1 @ 5, 1 @ 3	698.2	3/4"	40°	1,015	202	420
IDC16-2192D	192.00	5,352	3,148	17,840	87%	8.20	2 @ 5	774.2	3/4"	40°	1,080	217	420

#### NOTES:

1. Operation at 50 Hz will generate approximately a 17% reduction in performance. Consult factory for gas heater sizing.
2. Performance data based on AMCA licensed data from unheated units.
3. Gas supply pressure: (Min 1.0 psi or 27 inch wc) to (Max 5.0 psi or 138 inch wc)
4. If incoming supply psi is greater than 5 psi, primary reducing regulator required and sized for incoming psi down to 5 psi.
5. Maximum leaving air temperature shall not exceed 120°F.
6. CAUTION: Direct Gas Heaters are not intended for use in high humidity applications.
7. Duct transition and direct fired gas heater are factory mounted to air curtain and each require individual support.
8. Gas train size is not the main gas supply line size.
9. Vertically mounted direct gas heated air curtain not available.

See sheet EP-429 for amp draws/total load requirements.

### MODEL NUMBER CONFIGURATION

**IDC16-1 060 D D-F-SS**

Series	# of Motors	Opening Width	Heat	Voltage	Intake	Opt. Cabinet Finish
IDC16	1, 2	060" - 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	SS=Stainless Steel CC=Custom Color

Sound level measured 10' (3m) from the unit in free field:  
3, 5, 7½, (5 + 3) & (5 + 5) hp motor(s):  
68 dBA, 70 dBA, 71 dBA, 72 dBA & 73 dBA

Berner reserves the right to alter specifications without prior notice.

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

DS-429  
May, 2023



# INDUSTRIAL DIRECT DRIVE 16

## Direct Gas Heated Air Curtain

### Electrical Performance Sheet

MODEL	Qty @ HP	208/3/60 (voltage code D) TOTAL MOTOR AMP DRAW			240/3/60 (voltage code E) TOTAL MOTOR AMP DRAW			480/3/60 (voltage code H) TOTAL MOTOR AMP DRAW		
		# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC16-1060D IDC16-1072D IDC16-1084D	1 @ 3	1	16.7	25	1	15.3	25	1	7.7	15
IDC16-1096D IDC16-1108D	1 @ 5	1	20.6	35	1	18.9	35	1	9.5	20
IDC16-1120D IDC16-1132D IDC16-1144D IDC16-1156D	1 @ 7.5	1	26.6	50	1	25.1	45	1	12.6	25
IDC16-2168D IDC16-2180D	1 @ 3 1 @ 5	1	33.7	50	1	31.1	60	1	15.6	25
IDC16-2192D	2 @ 5	1	37.6	60	1	34.7	60	1	17.4	25

MODEL	Qty @ HP	600/3/60 (voltage code I) TOTAL MOTOR AMP DRAW			380/3/50 (voltage code T) TOTAL MOTOR AMP DRAW		
		# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC16-1060D IDC16-1072D IDC16-1084D	1 @ 3	1	5.2	15	1	7.9	15
IDC16-1096D IDC16-1108D	1 @ 5	1	7.6	15	1	9.7	20
IDC16-1120D IDC16-1132D IDC16-1144D IDC16-1156D	1 @ 7.5	1	9.8	20	1	11.0	20
IDC16-2168D IDC16-2180D	1 @ 3 1 @ 5	1	13.7	20	1	15.6	20
IDC16-2192D	2 @ 5	1	13.9	20	1	17.4	25

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

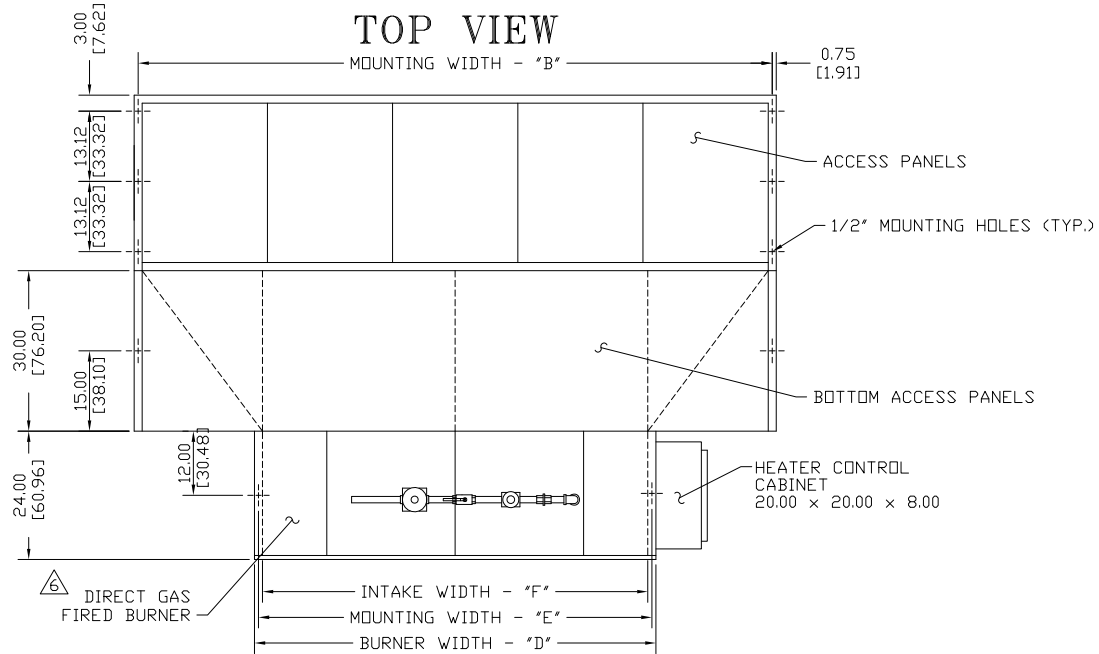
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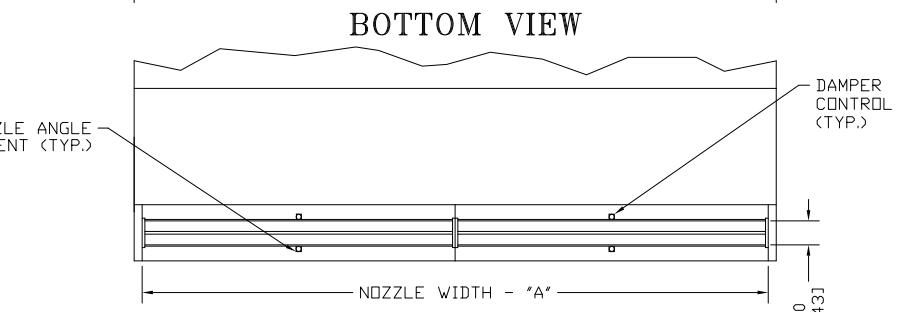
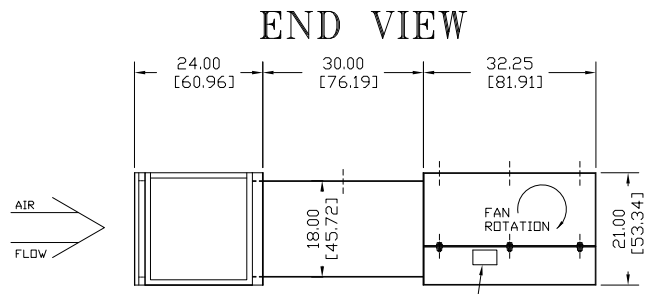
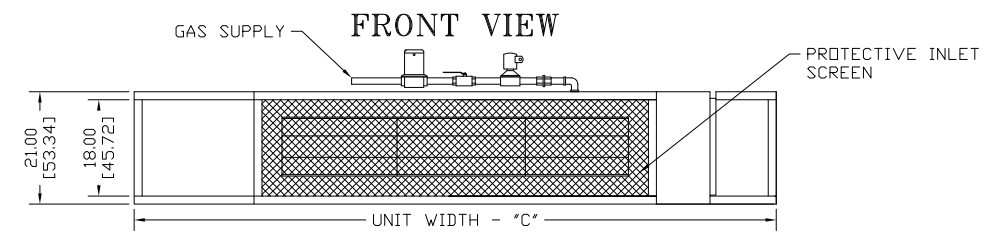
EP-429  
March, 2022

# IDC 16

## DIRECT GAS FIRED ONE HEATER SYSTEM FRONT INTAKE



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



- 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 SUPPORT DIRECT GAS HEATERS SEPARATELY FROM UNIT.
  - 8 DIMENSIONS IN INCHES [CENTIMETERS].

MODEL	NOZZLE WIDTH 'A'	MOUNTING WIDTH 'B'	UNIT WIDTH 'C'	BURNER WIDTH 'D'	MOUNTING WIDTH 'E'	INTAKE WIDTH 'F'
IDC16-1060D-F	60.00 [152.40]	61.50 [156.21]	63.00 [160.02]	39.00 [99.06]	37.50 [95.25]	36.00 [91.44]
IDC16-1072D-F	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]	39.00 [99.06]	37.50 [95.25]	36.00 [91.44]
IDC16-1084D-F	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]	39.00 [99.06]	37.50 [95.25]	36.00 [91.44]
IDC16-1096D-F	96.00 [243.84]	97.50 [247.65]	99.00 [251.46]	51.00 [129.54]	49.50 [125.73]	48.00 [121.92]
IDC16-1108D-F	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]	51.00 [129.54]	49.50 [125.73]	48.00 [121.92]
IDC16-1120D-F	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]	75.00 [190.50]	73.50 [186.69]	72.00 [182.88]
IDC16-1132D-F	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]	75.00 [190.50]	73.50 [186.69]	72.00 [182.88]
IDC16-1144D-F	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]	75.00 [190.50]	73.50 [186.69]	72.00 [182.88]
IDC16-1156D-F	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IDC16-2168D-F	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IDC16-2180D-F	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]	99.00 [251.46]	97.50 [247.65]	96.00 [243.84]
IDC16-2192D-F	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]	99.00 [251.46]	97.50 [247.65]	96.00 [243.84]

PROJECT		TITLE: <b>BERNER</b>
LOCATION		MODEL IDC16 AIR CURTAIN
ARCHITECT		DIRECT GAS FIRED - ONE HEATER SYSTEM
ENGINEER		
DWG. NO.	IDC16-DGF1	
DATE	04APR2021	
BY	S. BEIL	
REPLACES	03DEC19	
BY	N. GRADY	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.