



INDUSTRIAL DIRECT DRIVE 20

Direct Gas Heated Air Curtain

Data Sheet

For Mounting Heights To 20' (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	Max Air Temp. Rise (°F)	Net Wt. Air Curtain (lbs)	Net Wt. Duct Trans. (lbs)	Net Wt. Burner Box (lbs)
IDC20-1060D	60.00	6,580	3,870	6,854	89%	4.70	1 @ 5	321.5	3/4"	40°	390	82	220
IDC20-1072D	72.00	6,549	3,852	8,186	89%	4.90	1 @ 5	356.0	3/4"	40°	435	97	260
IDC20-1084D	84.00	6,076	3,574	8,861	87%	4.90	1 @ 5	384.6	3/4"	40°	480	106	260
IDC20-1096D	96.00	6,900	4,059	11,500	92%	6.80	1 @ 7½	499.0	3/4"	40°	600	115	300
IDC20-1108D	108.00	6,747	3,969	12,650	90%	6.90	1 @ 7½	549.3	3/4"	40°	680	125	340
IDC20-1120D	117.00	7,494	4,523	15,612	88%	8.70	1 @ 10	677.5	3/4"	40°	750	130	380
IDC20-1132D	132.00	7,017	4,127	16,080	87%	8.90	1 @ 10	698.2	3/4"	40°	795	143	420
IDC20-1144D	144.00	7,640	4,381	19,100	87%	11.70	1 @ 15	829.4	1"	40°	835	152	470
IDC20-1156D	156.00	7,405	4,356	20,055	86%	11.90	1 @ 15	870.8	1"	40°	940	163	500
IDC20-1168D	168.00	7,783	4,323	22,700	90%	12.80	1 @ 15	985.2	1"	40°	1,025	177	500
IDC20-1180D	180.00	7,300	4,294	22,814	91%	12.90	1 @ 15	990.1	1"	40°	1,070	192	500
IDC20-2192D	192.00	6,900	4,059	23,000	92%	13.60	2 @ 7½	998.0	1"	40°	1,190	207	500

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-449 for amp draws/total load requirements.

MODEL NUMBER CONFIGURATION

IDC20-1 060 D D-F SS

Series	# of Motors	Opening Width	Heat	Voltage	Intake	Opt. Cabinet Finish
IDC20	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.



INDUSTRIAL DIRECT DRIVE 20

Direct Gas Heated Air Curtain
Electrical Performance Sheet

MODEL	Qty @ HP	# CKTS	208/3/60 (voltage code D) TOTAL MOTOR AMP DRAW		# CKTS	240/3/60 (voltage code E) TOTAL MOTOR AMP DRAW		# CKTS	480/3/60 (voltage code H) TOTAL MOTOR AMP DRAW	
			AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC20-1060D IDC20-1072D IDC20-1084D	1 @ 5	1	20.6	35	1	18.9	35	1	9.5	20
IDC20-1096D IDC20-1108D	1 @ 7.5	1	26.6	50	1	25.1	45	1	12.6	25
IDC20-1120D IDC20-1132D	1 @ 10	1	35.1	60	1	33.7	60	1	16.9	30
IDC20-1144D IDC20-1156D IDC20-1168D IDC20-1180D	1 @ 15	1	49.6	100	1	47.1	100	1	23.6	45
IDC20-2192D	2 @ 7.5	1	49.6	70	1	47.1	70	1	23.6	35

MODEL	Qty @ HP	# CKTS	600/3/60 (voltage code I) TOTAL MOTOR AMP DRAW		# CKTS	380/3/50 (voltage code T) TOTAL MOTOR AMP DRAW	
			AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC20-1060D IDC20-1072D IDC20-1084D	1 @ 5	1	7.6	15	1	9.7	20
IDC20-1096D IDC20-1108D	1 @ 7.5	1	9.8	20	1	11.0	20
IDC20-1120D IDC20-1132D	1 @ 10	1	13.0	25	1	14.5	25
IDC20-1144D IDC20-1156D IDC20-1168D IDC20-1180D	1 @ 15	1	18.8	35	1	20.0	40
IDC20-2192D	2 @ 7.5	1	18.3	30	1	20.0	40

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

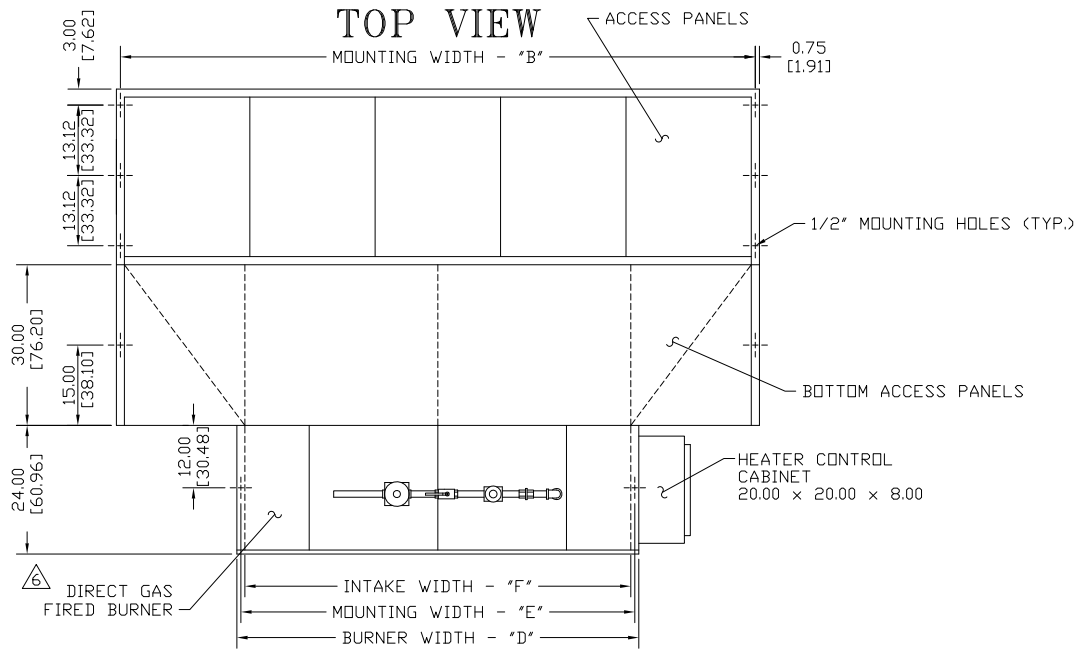
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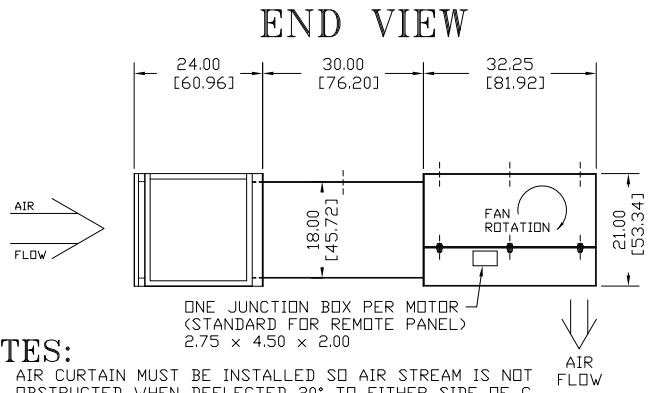
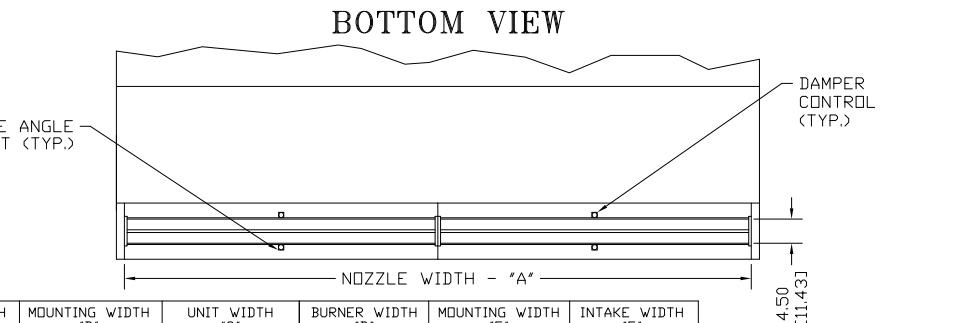
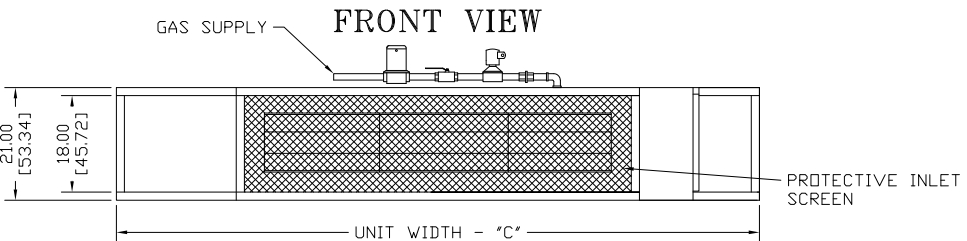
EP-449
December, 2018

IDC20

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"
IDC20-1060D-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]
IDC20-1072D-F	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]	51.00 [129.54]	49.50 [125.73]	48.00 [121.92]
IDC20-1084D-F	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]	51.00 [129.54]	49.50 [125.73]	48.00 [121.92]
IDC20-1096D-F	96.00 [243.84]	97.50 [247.65]	99.00 [251.46]	63.00 [160.02]	61.50 [156.21]	60.00 [152.40]
IDC20-1108D-F	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]	75.00 [190.50]	73.50 [186.69]	72.00 [182.88]
IDC20-1120D-F	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]	87.00 [220.98]	85.50 [217.17]	84.00 [213.36]
IDC20-1132D-F	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]	99.00 [251.46]	97.50 [247.65]	96.00 [243.84]
IDC20-1144D-F	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]	111.00 [281.94]	109.50 [278.13]	108.00 [274.32]
IDC20-1156D-F	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]	120.00 [304.80]	118.50 [300.99]	117.00 [297.18]
IDC20-1168D-F	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]	120.00 [304.80]	118.50 [300.99]	117.00 [297.18]
IDC20-1180D-F	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]	120.00 [304.80]	118.50 [300.99]	117.00 [297.18]
IDC20-2192D-F	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]	120.00 [304.80]	118.50 [300.99]	117.00 [297.18]

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	IDC20-DGF1	TITLE: BERNER
DATE	04APR2021	MODEL IDC20 AIR CURTAIN
BY	S. BEIL	DIRECT GAS FIRED - ONE HEATER SYSTEM
REPLACES	03DEC19	
BY	N. GRADY	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.