#### DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



## CITY OF PORTLAN BUILDING PERN



This is to certify that

Located at

UNIVERSITY OF NEW ENGLAND /Titan Mechanical Inc.

**0 BISHOP ST** 

PERMIT ID: 2012-65618

CBL: 281 A003001

has permission to Install Modine Gas Unit Heater in the bus shelter.

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise clsoed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.

**Fire Prevention Officer** 

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY THERE IS A PENALTY FOR REMOVING THIS CARD

## BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

### **REQUIRED INSPECTIONS:**

**Final Inspection** 

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

City of Portland, Maine - B	building or Use Permit	Permit No:	Date Applied For:	CBL:	
389 Congress Street, 04101 Te	l: (207) 874-8703, Fax: (207)	874-8716	2012-65618	12/13/2012	281 A003001
Location of Construction:	Owner Name:		Owner Address:		Phone:
0 BISHOP ST	UNIVERSITY OF NEW E	NGLAN	11 HILLS BEACH	RD	
Business Name:	Contractor Name:		Contractor Address:		Phone
University of New England	Titan Mechanical Inc.		232 Riverside Indu	strial Pky Portland	(207) 878-5223
Lessee/Buyer's Name	Phone:		Permit Type: HVAC		
Proposed Use: Same: Intermodal lot with bus she	lter		d Project Description:	Heater in the bus she	elter.
Dept: Zoning Status: Note:	Approved	Reviewer:	Marge Schmucka	l Approval D	Pate: 12/13/201 Ok to Issue: ✓
Note:	Approved w/Conditions		Jeanie Bourke	Approval D	oate: 01/17/201 Ok to Issue: ✓
1) The installation must comply v	with the State of Maine Gas Regi	ilations.			
<ol> <li>Separate permits are required to pellet/wood stoves, commercial part of this process.</li> </ol>	for any electrical, plumbing, spri al hood exhaust systems and fuel				
3) The appliance and venting sha	Il be installed in accordance with	the UL lis	ting, manufacturer's	specifications and N	NFPA 211
Dept: Fire Status:	Approved w/Conditions	Reviewer:	Chris Pirone	Approval D	ate: 01/18/201
Note:					Ok to Issue:
					Ok to Issue:
1) Installation shall comply with	City Code Chapter 10.				Ok to issue:
<ol> <li>Installation shall comply with 0</li> <li>Fuel-fired boilers shall be protected.</li> </ol>		101, Life S	afety Code.		Ok to issue:

City of Portland, Maine	e - Building or Use	Permit Application	Permit No:	Issue Date:	:	CBL:		
389 Congress Street, 0410	Tel: (207) 874-8703	3, Fax: (207) 874-871	6 2012-65618			281	A003001	
Location of Construction:	Owner Name:		Owner Address:					
0 BISHOP ST	UNIVERSITY	Y OF NEW ENGLAN	Owner Address: Phone:					
Business Name:	P:	Contractor Address:			Phone			
University of New England	Titan Mechan	ical Inc.	232 Riverside Inc	dustrial Pky	Portland	(207)	878-5223	
Lessee/Buyer's Name	Phone:		Permit Type:			Zone:		
			HVAC			IH	R3	
Past Use:	Proposed Use:		Permit Fee:	Cost of Worl	c	CEO D	istrict:	
Intermodal lot with bus shelte		odal lot with bus	\$50.00	\$	3,000.00		7	
	shelter		FIRE DEPT:	Approved	INSPECTIO	^		
				Denied	Use Group:	B	Type:	
			, [	N/A	04.0	1	S	
			1/18/13		Min	til	2009	
Proposed Project Description:			Cal	1.1 -	Mub Signature:	Λ.	x + 1 - 1 -	
Install Modine Gas Unit Heat	ter in the bus shelter		Signature:	when			5 1-11113	
			PEDESTRIAN ACT	IVITIES DIST	RICT (P.A.)	L	1	
			Action: Appro	ved App	roved w/Cond	ditions	Denied	
			6:		D			
	In		Signature:		Date	е:		
Permit Taken By:	Date Applied For: 12/13/2012		Zoning	g Approva	1			
gg		Special Zone or Revie	ws Zoni	ng Appeal	I	listoric l	Preservation	
<ol> <li>This permit application of Applicant(s) from meeting</li> </ol>			Variance			Not in District or Landma		
Federal Rules.	ig applicable batte and	Shoreland	Variance	æ		ע ווו זטאו	istrict of Landman	
2. Building permits do not i	include plumbing	Wetland	Miscellaneous			Does Not Require Review		
septic or electrical work.	merade plantonig,							
3. Building permits are void	d if work is not started	Flood Zone	Conditi	onal Use		Requires	Review	
within six (6) months of								
False information may in		Subdivision	Interpre	tation		Approve	d	
permit and stop all work.	•							
		Site Plan	Approv	ed		Approve	d w/Conditions	
		Maj Minor MM	Denied			Denied		
		01-7	7					
		Date: 12/13/17	Date:		Date:			
						/		
		CERTIFICATION	ON					
I hereby certify that I am the o	umar of record of the na			e authorized	by the own	er of re	ecord and that	
I have been authorized by the	owner to make this appl	ication as his authorized	agent and I agree	to conform t	o all applic	cable la	ws of this	
jurisdiction. In addition, if a p	ermit for work describe	d in the application is is	sued, I certify that	the code off	icial's autho	orized r	representative	
shall have the authority to ente	er all areas covered by su	ach permit at any reason	able hour to enforce	ce the provis	sion of the	code(s)	applicable to	
such permit.								
SIGNATURE OF APPLICANT		ADDRESS	,	DATE		I	PHONE	

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

DATE

**PHONE** 



FILL IN AND SIGN WITH INK

Gold - Assessor's Copy

### **APPLICATION FOR F HEATING OR POWER E**

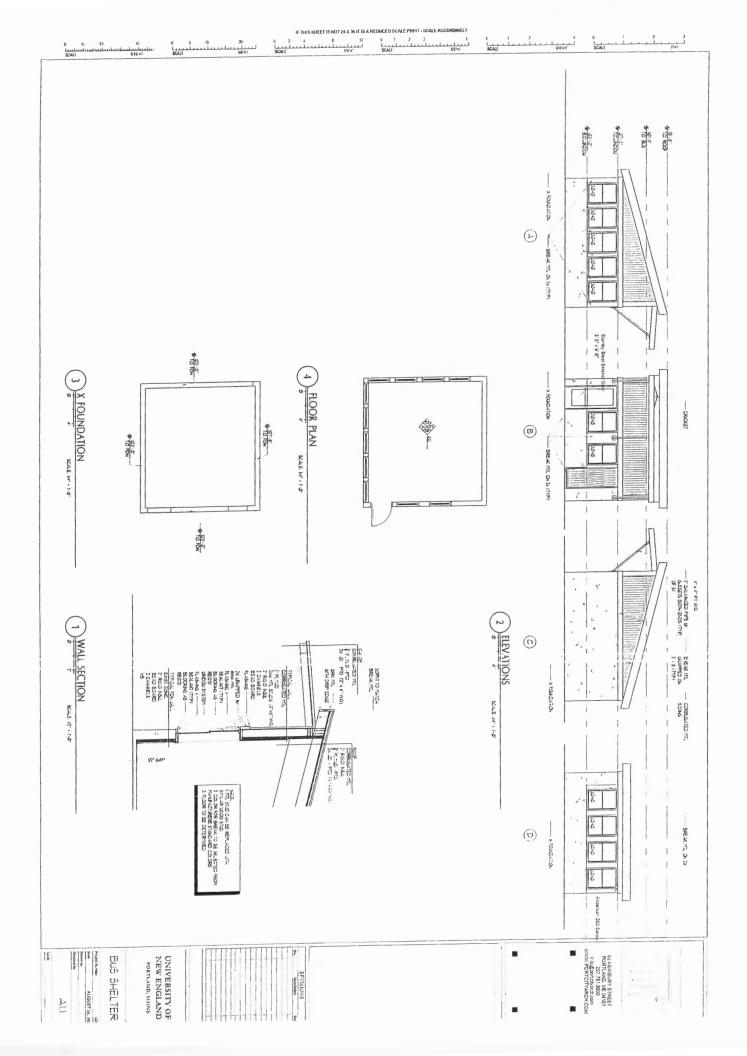
2012 63610	
PERMIT	
QUIPMENT	

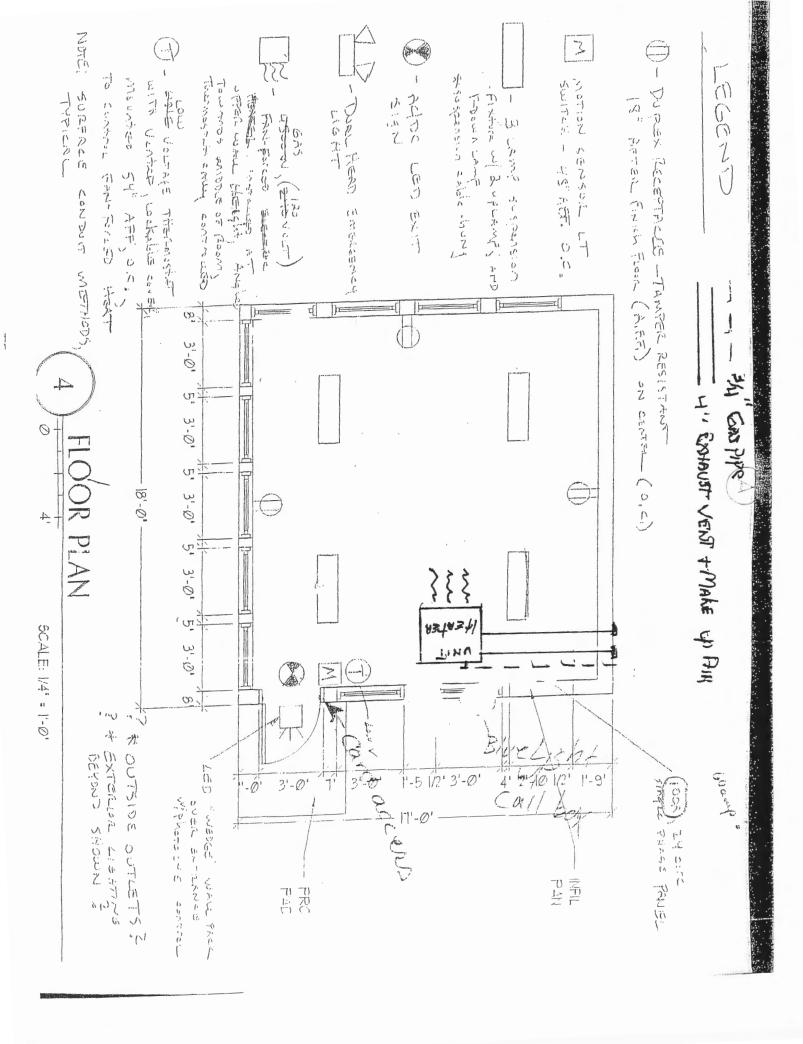
To the INSPECTOR OF BUILDINGS, PORTLAND, ME.  The undersigned hereby applies for a permit to instance accordance with the Laws of Maine, the Building Code of the second s	all the following heating, cooking or power equipment in the City of Portland, and the following specifications:
Location / CBL BISHOP ST Post IAND, MAI Name and address of owner of appliance UNIVERSITY	WEUse of Building Bus Waiting ARBate 12-13-12 OF New England
Installer's name and address TITAN MECHANICA	
Location of appliance:  Basement Roof	Type of Chimney:   Masonry Lined  Factory built
Type of Fuel:  Gas Oil Solid	☐ Metal Factory Built U.L. Listing #
Appliance Name: MODINE GAS UNIT HEATER U.L. Approved A Yes No	Direct Vent  Type UL#
Will appliance be installed in accordance with the manufacture's installation instructions?  Yes	Type of Fuel Tank  Oil  Gas  Dept. of Building Inspections  City of Portland Maine
The Type of License of Installer:  Master Plumber #  Solid Fuel #  Oil #  Gas # PVT   OG    Other	Number of Tanks feet.  Distance from Tank to Center of Flame feet.  Cost of Work: \$\frac{2}{500}
Approved           Fire:	Approved with Conditions  See attached letter or requirement
Signature of Installer	Inspector's Signature Date Approved

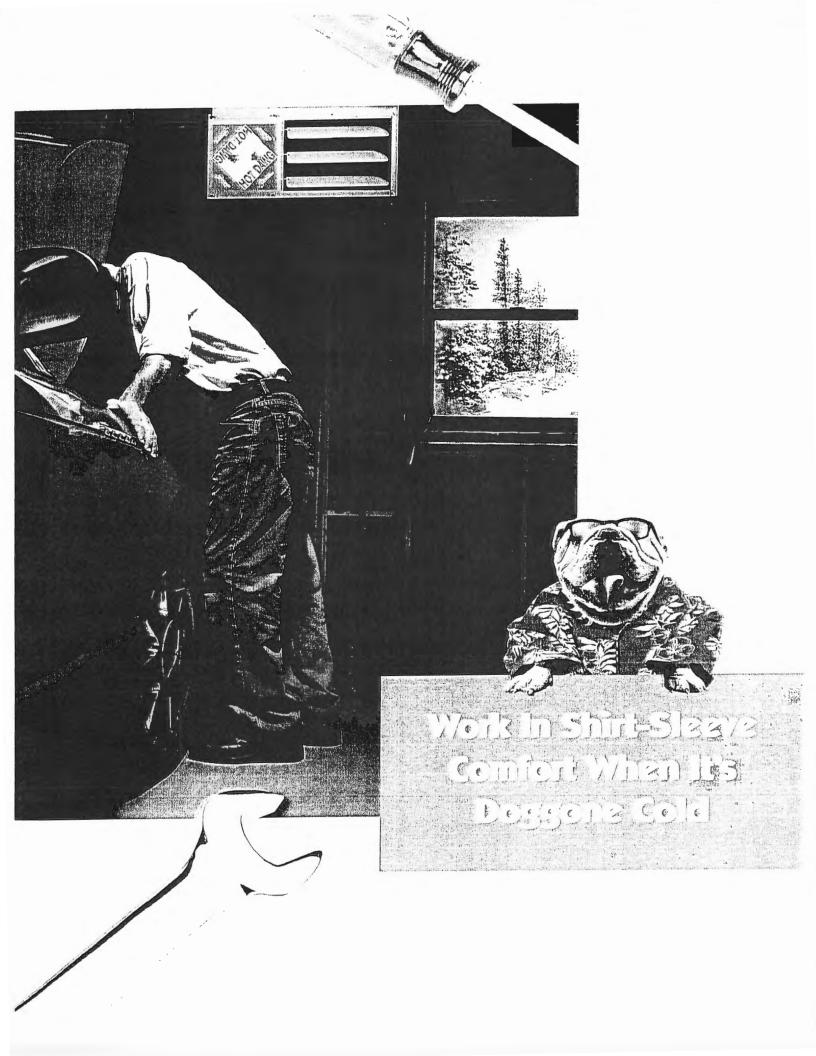
White - Inspection

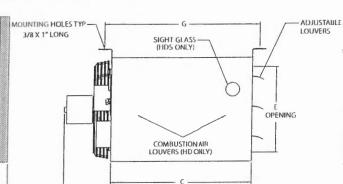
Yellow - File

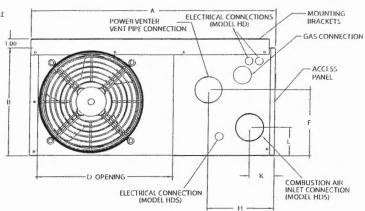
Pink - Applicant's











Do	rfo	rm	an	00

Perror	mance		18.50				
Mo	del Size	30	45	60	75	100	125
Btu	/Hr Input	30,000	45,000	60,000	75,000	100,000	125,000
Btu/l	Hr Output	24,000	36,000	48,000	60,000	80,000	100,000
Entering	Airliow (CFM)	505	720	990	1,160	1,490	1,980
Outle	et Velocity	523	749	653	769	565	747
Air Terr	Air Temp. Rise (°F)		46	45	48	50	47
Mounting I	Height (Max ft.)	10	10	12	14	12	16
Heat	Throw (ft.)	25	27	36	38	42	56
	Horsepower	1/15	1/15	1/12	1/12	1/12	1/8
Motor	RPM	1,550	1,550	1,625	1,625	1,050	1,550
Data	Туре	S.P.	S.P.	P.S.C.	P.S.C.	S.P.	P.S.C.
	Amps	24	2.4	12	1.2	2.7	2.2
Unit T	otal Amps	3.7	3.7	2.5	2.5	4.7	4.2

ACCESS VIEW

### Mounting

1" - angle, mounting brackets are slotted to accommodate joists on 16" or 24" centerlines.

	-	÷	0	P	P	Ő		Õ	9	9	9	9			
	00.	01.1	3.10	5.10	7.10	9.10	SIZES 30-75	17.10	19.10	21.10	23.10	25.10	22.02		
0.0	0	o	o.	-0	ę	Ģ	)	0	0	.0-	0	ņ	9	o°.	
1.50		5.50	7.50	9.50	11.50	13.50	SIZES 100/125 (ACCESSORY)	21.50	23.50	25.50	27.50	29.50	31.50	33.50	

### Dimensions (inches)

1	,	-			
Model Size	30	45	60	75	100/125
A	26.8	26.8	26.8	26.8	35.5
В	12.2	12.2	18.0	18.0	20.5
С	16.5	16.5	16.5	16.5	22.0
D	14.9	14.9	14.9	14.9	22.5
E	14.1	10.1	15.9	15.9	18.4
F	7.25	7.25	10.75	10.75	14.0
G	18/5	18.5	18.5	18.5	24.0
Н	76	7.6	7.835	7.835	8.4
Gas Connection	1/2	1/2	1/2	1/2	1/2
I	34.5	34.5	34.5	34.5	43.0
J	22	22	25	25	31.0
K (HDS only)	274	2.74	3.15	3.15	3.87
L (HDS only)	3.19	3.19	5.55	5.55	10.73
Vent Connector Size (in.)	3	3	3/4*	3/4*	4
Combustion Air Inlet Connector		3	4	4	.:

Approx. Shipping Weight (lbs.)

3" for Model HD, 4" for Model HDS

Size (Model HDS only) (in.)

Fan Diameter

#### Clearances

Unit Side	Clearance To Combustible Materials	Recommended Service Clearance		
Top and Bottom	1"	1"		
Access Side	1"	18"		
Non-Access Side	1"	1"		
Rear	18"	18"		
Vent Connector	4"	4"		

10

10

60

14

80

14

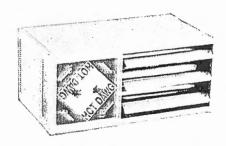
85

18.0

125

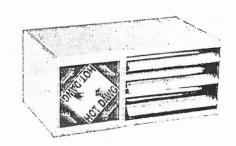
### **Control Options**

Control Description	Control Code No.	Service Voltage	Thermostat Voltage	Type of Gas	Model Size
Single-Stage, Direct Spark Ignition, 100% Shut-Off with Continuous Retry	11	115V	24V	natural	30-125
<ul> <li>Utilizes a single-stage combination gas control with ignition control.</li> <li>Gas is lit with a direct spark igniter on call for heat.</li> </ul>	21	115V	24V	propane	30-125
Two-Stage, Direct Spark Ignition, 100% Shut-Off with Continuous Retry	12	115V	24V	natural	75-125
<ul> <li>Utilizes a two-stage combination gas control with built-in ignition control.</li> <li>Firing rate is 100% and 50% of full rated input. Gas is lit with a direct spark gniter on call for heat.</li> </ul>	22	115V	24V	propane	75-125



# Hot Daws Model HD power-exhausted, gas-filled unit heater

- · Hush-puppy quiet operation.
- · Uses natural or propane gas.
- Certified for residential, commercial and industrial use.
- Low-profile design and neutral color to blend in with decor.
- Lightweight, easily installs 1" from ceiling with only 2 angle brackets (included on sizes 30-75, accessory for 100, 125).
- Install quickly and easily with field wiring connections and knockouts for quick access to gas and electricity.
- Standard power exhaust simplifies side-wall or roof venting with small-diameter vent pipe.
- Right or left hand controls available on all 30-75 units. Gas, electrical and flue connections can be changed by simply flipping the Hot Dawg over.
- Permanently-lubricated motor for trouble-free dependability.
- · Full 10-year warranty on heat exchanger.
- Also available with a blower. Contact Modine for further information.



# Hot Daws Model HDS separated-combustion, gas-fired unit heater

Same features as Model HD, except adds these features:

- The separated combustion Hot Dawg draws its combustion air from outside the work space, ensuring the unit always has plenty of fresh, clean air to breathe.
- The fresh-air supply reduces common concerns about dusty, dirty or humid applications, providing greater durability and reduced maintenance.
- Drawing combustion air from the outside increases overall heating efficiency.
- External gas connections.

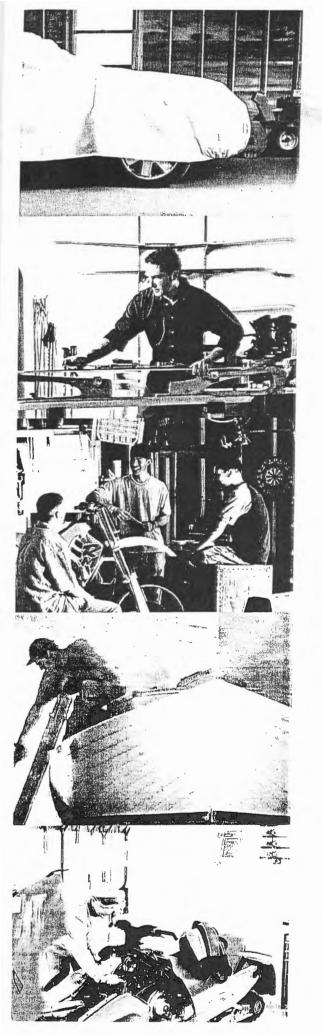


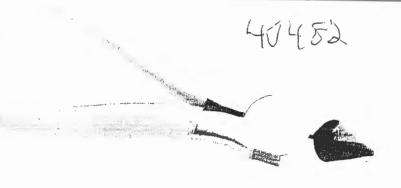
### For The Heat You Need, Just Unleash A Hot Dawg!

in the United Services	The state of the s	Type em Apalle and Coll
HD/HDS 30	30,000	1 to 1-1/2 Car Garage
HD/HDS 45	45,000	2 to 2-1/2 Car Garage
HD/HDS 60	60,000	3 to 3-1/2 Car Garage
HD/HDS 75,100,125	75,000-125,000	Large Garage



Sizing data for sample only. Consult a qualified installer for the actual requirements for your building.





Hot Dawig" - Chasing Array The Cold in Any Space, Hew Or Old

You don't have to go far to find a Hot Dawg. For the location of your nearest Hot Dawg source, fetch your phone and call:

800-828-4328 (HEAT)

or visit us online at www.modine.com/hotdawg



Low-Frofile, Gas-Fired' Residential Garage Heaters

### Commercial Products Group

Modine Manufacturing Company 1500 DeKoven Avenue Racine, WI 53403-2552 Phone: 1.800.828.4328 (HEAT)

www.modine.com/hotdawg

MODINE

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