

THE HeatRay TUBE RADIANT HEATING SYSTEM OWNER'S MANUAL INSTALLATION AND OPERATING INSTRUCTIONS

Publication TRH 160699-AU

This appliance shall be installed in accordance with:

- Manufacturer's Installation Instructions
- Local Gas Fitting Regulations
- Municipal Building Codes
- A.G.A. Installation Code AG.601 for Gas Burning Equipment
- Any other relevant Statutory Regulation

This appliance must be installed, commissioned and serviced by an authorised person.

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CELMEC INTERNATIONAL PTY LTD ACN 005 850 546

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HeatRay, GAS FIRED TUBE RADIANT HEATERS

WARRANTY

Celmec International warrants to the original owner-user that all Celmec products will be free from defects in materials and workmanship. This warranty is limited to twelve (12) months from the date of despatch, with the exception of Aluminised Steel Tubes and Reflectors which carry an additional four (4) year warranty.

Limitations and Exclusions

Celmec's obligation under this warranty is limited to repair or replacement at Celmec's factory, Moorabbin, of any parts of the product identified by model or serial number which shall be returned to Celmec with transportation charges prepaid and which Celmec's examination shall disclose to its satisfaction to be defective.

No parts will be supplied (in exchange for those defective or requiring repair) in advance of receipt and examination of the returned parts.

The manufacturer does not participate in any site related costs or labour expenses incidental to the replacement of parts, repairing, removing, installing, servicing, or handling of parts or complete products and assumes no liability on parts repaired or replaced without consent.

All warranty requests for repairs or replacements must be accompanied by an installation commissioning report and a written explanation, giving model, serial number of unit and details of fault.

There is no warranty expressed or implied with regard to capacity requirements. The selection of the appropriate unit or units depends entirely upon the system design and capacities as determined and specified by the purchaser.

This warranty does not apply to any unit or parts thereof which become inoperative due to accident, misapplication, abuse, misuse, unauthorized alterations, or operation contrary to Celmec's wiring diagrams and printed instructions, or if the serial number has been altered, defaced or removed.

Celmec shall not be liable for any default or delay in performance of its warranty obligations hereunder caused by any circumstances beyond its control, including but not limited to judicial or government restrictions or restraints, strikes, fires, floods, or delayed supplies of raw materials or parts.

All goods are thoroughly inspected and tested before despatch and are at the risk of the purchaser after shipment leaves Celmec's factory. Should the goods arrive damaged, make the transport company aware of their condition and have this noted on the freight bill. If damage is discovered after unpacking, demand immediate inspection by the transportation company and insist that a notation is made of the damage on the freight bill.

200598

'U' TUBE PANEL COMPONENTS (UP) I.

FORCED DRAUGHT (FD)

2400 - UP3	53 Mj/Hr	3 Mtrs long
2405 - UP4.5	79 Mj/Hr	4.5 Mtrs long
2410 - UP6	106 Mj/Hr	6 Mtrs long
2415 - UP7.5	127 M j/Hr	7.5 Mtrs long
2700 - UP9	127 Mj/Hr	9 Mtrs long
2705 - UP12	127 Mj/Hr	12 Mtrs long
2710 - UP9	150 M j/Hr	9 Mtrs long
2715 - UP12	170 Mj/Hr	12 Mtrs long

PROJECT:	SHEET NO.:
CLIENT:	GAS TYPE:

Components comprising each system:

PART NO.	DESCRIPTION	UP3 FD	Q	UP4.5 FD	Q	UP6 FD	Q	UP7.5 FD	Q	UP9 FD	Q	UP12 FD	ď
201/0	FD Burner/Fan Unit	1		1		1		1		1		1	
205	Draw Band Coupler	2		1		1		1		1		1	
206	Blast Tube 3050	1*		1		1		1		1		1	
402/14	Heatube Painted 1.400	n/a		2		n/a		2		n/a		n/a	
402/29	Heatube Painted 2.900	1		1		3		3		5		7	
403	Tube Coupler	n/a		1		1		3		3		5	
409/15	Reflector 1500	n/a		1		n/a		1		n/a		n/a	
409/30	Reflector 3000	1		1		2		2		3		4	
412	U Bend	1		1		1	_	1		1		1	
413/A	Reflector Front Cap Panel	1		1		1		1		1		1	-
413/B	Reflector End Cap Panel	1		1		1		1		1		1	
414	End Panel Wing Nuts/Bolts	6		6		6		6		6		6	
415	Support Wire Hangers	2		3		3		4		4		- 5	
416	Installation Kit H/Temp Sealant	1		1		1		1		1		1	
425	Discharge Elbow	1		1		1		1		1		1	
600	Rivets	5		18		18		32		32		45	
703	Turbulator	1		1		1		1		1		1	
TRH1105 99-AU	Installation Manual	1		1		1		1		1		1	

- Part No. 425 (Discharge Elbow) not required if discharge flues are required. 1-Tube of sealant required for every three burners supplied. 1.
- 2.
- 1-Installation Manual per every delivery. 3.

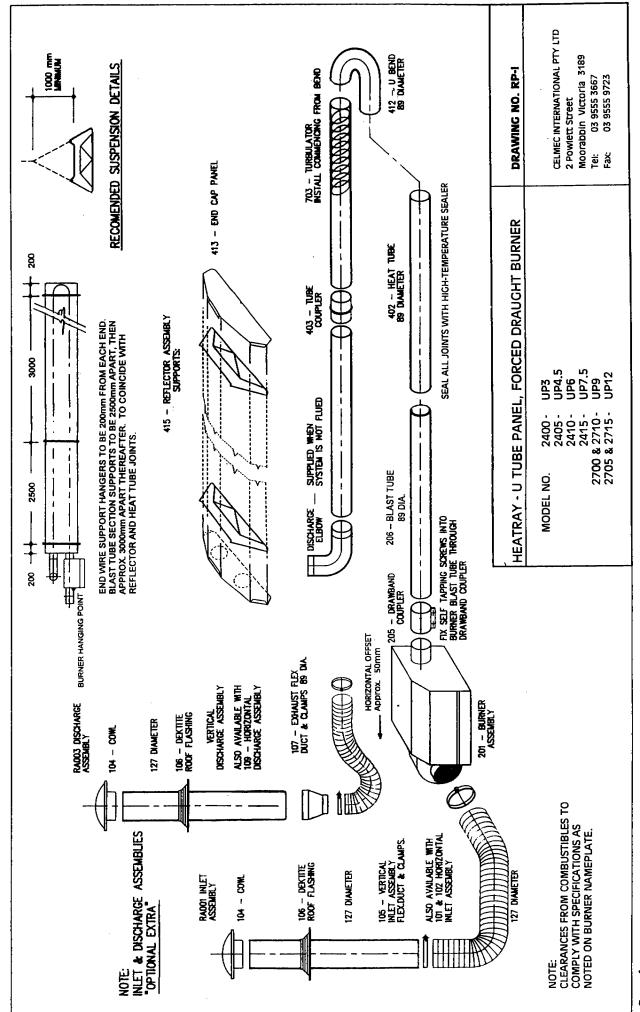
4. ′	' UP3 B	Blast Tube -	2860mm long	(UP4.5 - UP12 -	3050mm long)
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Goods checked for defects:	
Quantities checked:	
No. of packages:	

U TUBE PANEL INSTALLATION

(UP3 - UP12) Refer Drg. No. RP-1

- 1. Cross reference component check list and ensure all components are correct. Refer to Page 2.
- 2. Survey the area where the unit is to be installed and ensure that all clearances are obtained. See Page 9.
- 3. When positioning the unit, the burner should be located where the coldest conditions occur.
- 4. a) Lay out the 89 dia. Heat Tube and Blast Tube on the ground, starting with the Blast Tube. Refer Drg. RP-1, Page 4.
 - b) Ensure all joints are round and free of burrs. Run high temp. sealer (supplied) prior to hanging, on the inside of the Heat Tube. When joining the Heat Tubes together butt the tube to the swage of the joiner. Fixing of all tubes are by stainless steel rivets (supplied). Tubes must be hung prior to joining.
 - c) Ensure that the end Wire Support Hangers are 200mm from each end.
 The blast tube section supports to be 2500mm apart, then approximately
 3000mm apart thereafter, to coincide with reflector and heat tube joints.
 - d) Place the length of turbulator into the exhauster leg immediately after the U/Bend.
 - e) Suspend the chain from the ceiling/roof to form a coat hanger arrangement. Refer Drg RP-1. Lift up the tube sections and intermediate hangers and fix the hangers onto the chain with closed link coupling/clamps (snap hooks). Join the Heat Tubes and Blast Tubes together as described above in point 'b'.
 - f) Check and adjust to ensure the unit is perfectly level.
 - Once the Unit is level, slide in the reflector sections, with a 25mm overlap and rivet the joints at the outer edges only, to allow movement (hinge action). This will prevent distortion of the reflector should further leveling be required.
 HINT: to achieve a neat overlap, notch a 30mm 'V' at the end of one reflector, in the centre, and insert the other reflector end, over and under.
 - h) Hang burner/fan unit and attach to the Blast Tube with the drawband coupler supplied. The drawband coupler to be Tek Screwed to burner tube and blast tube after tightening.
- 5. Fit optional inlet and/or discharge flue kits if applicable. Refer to Drawing RP1. Also consult your local gas authority.

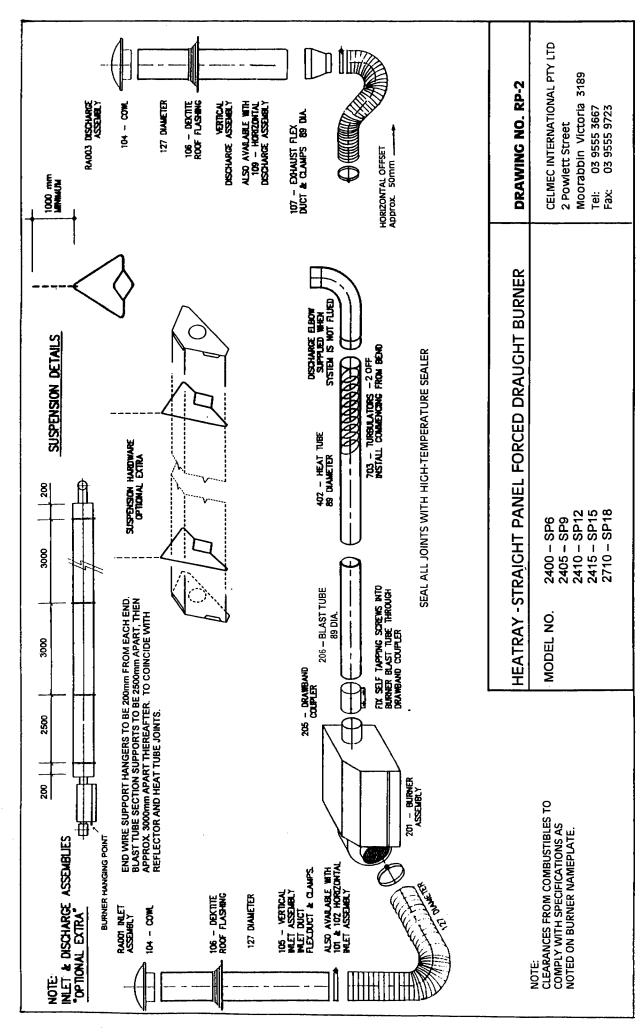


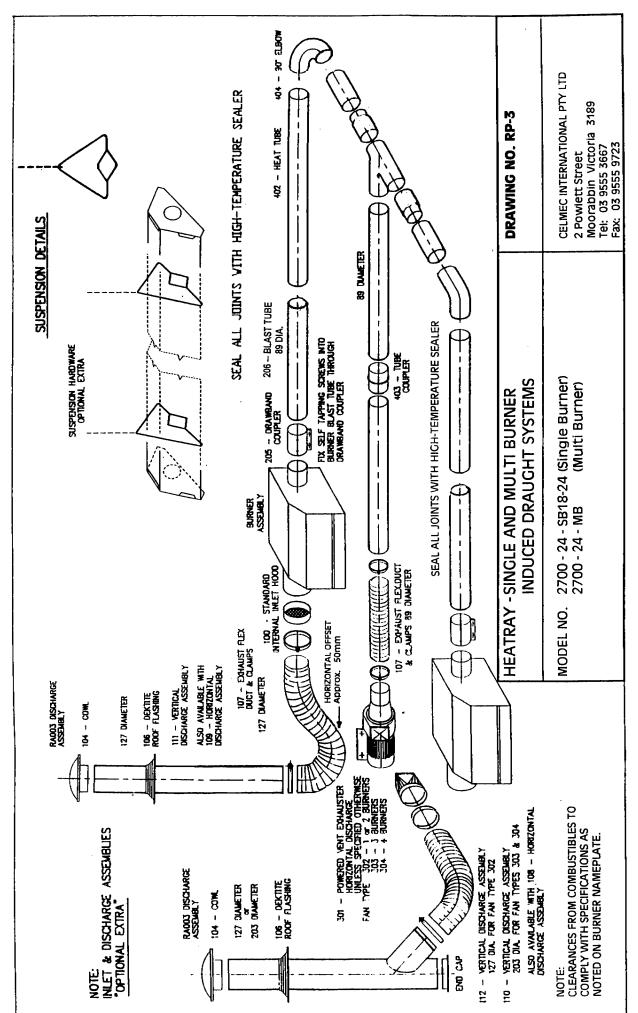
	STRAIGHT PANEL (SP) & MULTI BU FORCED DRAUGHT (FD)					(MB) C (OM	PONE	NTS	3			
240 241 241	5 - SP9 7 0 - SP12 1 5 - SP15 1	3 Mj/Hr 9 Mj/Hr 06 Mj/Hr 27 Mj/Hr 50 Mj/Hr			9 M 12 M 15 M	trs long trs long trs long trs long trs long							
PROJECT:	·		-			<u> </u>				SHEET	NO.	.:	
CLIENT:								G	AS '	TYPE:			
	ents comprising ea		em										
PART NO.	DESCRIPTION	SP6 FD	Q	SP9 FD	Q	SP12 FD	Q	SP15 FD	Q	SP18 FD	Q	MB FD	Q
201/0 FD	Burner Fan Unit	1 1		1		1		1		1			
205	Draw Band Coupler	1		1		1		1		1			
206/A	Blast Tube 3050mm	1		1		1		1		1			
402/29	Heat Tube Painted 2900	1		2		3		4		5			
403	Tube Coupler	n/a		1		2		3		4			
409-5	Reflector 3000 Single	2		3		4		5		6			
413	End Cap Panel	2		2		2		2		2			
414	End Panel Wing Nuts/Bolts	6		6		6		6		6			
415/S	Support Wire Hangers	3		4		5		6		7			
416	Installation Kit H/T Sealer	11		1		1		1		1	\sqcup		
425	Discharge Elbow	1		1		1		1		1			
600	Rivets	10		15		20		25		30			
703	Turbulator	2	ļ	2		2		2		2	<u> </u>		<u> </u>
TRH110599 -AU	Installation Manual	1		1		1		1		1			
2. 1-T	rt No. 425 (Discharge Elb ube of sealant required f nstallation Manual per ev ☐ On application	or every t	hree			_	s are	erequire	d.				
	hecked for defects: es checked: ckages:		•						-				

STRAIGHT PANEL (SP), SINGLE BURNER (SB) AND MULTI BURNER (MB) SYSTEMS INSTALLATION

(SP6 - SP18) Refer Drg. No. RP-2 (MB) Refer Drg. No. RP-3

- 1. Cross reference component check list and ensure all components are correct. Refer to Page 5.
- 2. Survey the area where the unit is to be installed and ensure that all clearances are obtained. See Page 9.
- 3. When positioning the unit, the burner should be located where the coldest conditions occur.
- 4. a) Lay out the 89 dia. Heat Tube and Blast Tube on the ground, starting with the Blast Tube. Refer Drg. RP-2, Page 7.
 - b) Ensure all joints are round and free of burrs. Run high temp. sealer (supplied) prior to hanging, on the inside of the Heat Tube. When joining the Heat Tubes together butt the tube to the swage of the joiner. Fixing of all tubes are by stainless steel rivets (supplied). Tubes must be hung prior to joining.
 - c) Ensure that the end Wire Support Hangers are 200mm from each end. The blast tube section wire supports to be 2500mm apart, then approximately 3000mm apart thereafter, to coincide with reflector and heat tube joints.
 - d) Place two lengths of turbulator into the discharge end of the tubing.
 - e) Suspend the chain from the ceiling/roof. Refer Drg RP-2. Lift up the tube sections and wire hangers and fix the hangers onto the chain with closed link coupling/clamps (snap hooks). Join the Heat Tubes and Blast Tubes together as described above in point 'b'.
 - f) Check and adjust to ensure the unit is perfectly level.
 - g) Once the Unit is level, slide in the reflector sections, with a 100mm overlap and rivet the joints at the outer edges only, to allow movement (hinge action). This will prevent distortion of the reflector should further leveling be required.
 - h) Hang burner/fan unit and attach to the Blast Tube with the drawband coupler supplied. The drawband coupler to be Tek Screwed to burner tube and blast tube after tightening.
- 5. Fit optional inlet and/or discharge flue kits if applicable. Refer to Drawing RP2. Also consult your local gas authority.





III. <u>CLEARANCES</u>

During the installation check to ensure that the installed system components comply with the required minimum clearance from combustibles, as shown below.

	RECOMMENDED MINIMUM CLEARANCE (mm)					
REFLECTOR TYPE	BOTTOM	SIDE	TOP			
Standard Reflector PN-409	1500	1000	300			
Standard Reflector PN-409 with heat shield PN-418	1200	1000	300			

IV. GAS PIPING AND CONNECTION

1. Pipe Size and Routings

This guide assumes that pipe size and routings have been determined as a part of the system design.

2. Pipe Installation and Connection

- All gas piping to be installed in accordance with local gas fitting regulations and installation code AG-601.
- Routing of gas pipe feed lines should contain no more than three 90 deg. elbows.
- All gas pipe feed lines to be securely anchored to building structural components so that there will be no possibility of movement when burner is attached.
- A manual gas shut-off valve must be installed in the input gas feed line at each burner and as close
 as possible to the burner.
- After installation, pipe joints in all gas pipe feed line systems must be tested for leaks with soap and water. It is recommended that this be done with air pressure before attaching line to main gas service facility.
- All pipe joint compounds used must be resistant to the effects of liquified petroleum gases.
 Provide enough unions to permit easy removal of accessories such as regulators, safety valves and burners.
- When welding pipe, take care to prevent weld spatter from getting into valves and regulators.
 ENSURE ALL FILINGS, DUST, MOISTURE ETC. ARE REMOVED FROM WITHIN THE PIPEWORK TO PREVENT COSTLY DAMAGE TO BURNER GAS VALVE.
- To prevent piping stresses due to expansion and contraction approved flexible connections must be installed on gas lines to burners.
- When installing new equipment, make sure all thread protectors and shipping blocks are removed.

V. CONTROL BOX INSTALLATION

The control box contains 240v circuit breaking switches and, at the clients option, thermostat and time clock. Mounting of the control box (or boxes) should be onto an internal wall or onto an insulated board on the inside of an external wall. The box should not be shielded from the area being heated by any obstructions. Where the control box is to be mounted outside the area being heated, consideration should be given to

installing the thermostat sensor remote from the box, into the area being heated.

VI. <u>ELECTRICAL WIRING</u>

1. Circuit Diagram

This guide assumes that a circuit diagram has been determined as part of the system design.

2 Wiring Installation

The electrical installation must comply with AS 3000-1981 and any additional requirements of the local Supply Authority.

In addition, line voltage wiring should be sized for maximum 5% voltage drop at the equipment under operating conditions.

Final wiring to burner socket connection must be flexible, to permit 75mm expansion movement.

VII. OPTIONAL ALARM

Alarm Output 240VAC, 0.5A.

Should the alarm option be exercised, J1 Terminal 4-6 circuit, the sequence is as follows: Upon turning the unit power ON the circuit is live.

Once the gas burner operates the circuit becomes inactive.

Should the burner fail the circuit will reactivate.

VIII.	PRELIMINARIES						
1.	This appliance is inoperable and requires Commissioning as per the following Is system installed as recommended in the manual, including clearance to	prod	cedure	•			
2.	combustibles? Has gas piping been installed and tested in accordance with local regulations		YES		NO		
	and Section IV?		YES		NO		
3.	Has the gas line been purged of air and are all service valves open?		YES		NO		
4.	Is the inlet gas pressure correct at the burner isolating valve (natural gas	_		_			
	1.1Kpa-1.5Kpa, LPG 2.75Kpa-3.0Kpa.		YES		NO		
5.	Is electrical wiring installed in accordance with local regulations and						
	Section VI and are fuses installed on the control panel?		YES		NO		
6.	Are all flexible connections and joints secure and air tight and building air						
	intakes and discharges unobstructed?		YES		NO		
7.	Is the drawband coupler between-burner body and blast tube, tightly clamped and making good electrical contact? That is, two (2) Tek screws should be fitted, one on each end of drawband coupler, to ensure positive electrical						
	contact is made.		YES		NO		
IX.	START UP						
1.	Remove the two (2) Tek screws and lift cover over burner gas valve and controls. Check fan rotation by watching fan wheel at inlet.						
2.							
3.							
4.	Check all wire connections for security.						
5.	Remove the seal screw on gas valve regulator (centre top of valve - refer Sec	tion	XII).				
6.	Check that the gas isolating valves are open.						
7.	Turn the burner on and listen for the air flow switch to close circuit.		n tha l	Man	ifold		
8.	Before the gas valve opens (after 30 seconds approx.) observe a small readir manometer.	ıy o	ii ui c i	viaii	liola		
9.	After 30 seconds pre-purge, the gas valve opens to a partial position, spark co	mm	ences	flar	ne lights		
0.	(visible through sight glass) and burner light comes on.				Ū		
10.	Within a further 7 seconds of flame proving period, the main valve opens fully.	_		_			
11.	The MANIFOLD PRESSURE manometer should now read 0.9KPa for NG	or 2	.5KPa	for	LPG.		
	Adjust the setting screw of the gas valve regulator, if necessary, to achie CLOCKWISE raises the pressure, ANTI-CLOCKWISE lowers the pressure	ve i	inese	pres	sures .		
12.	The INLET LINE PRESSURE manometer should read 1.1Kpa-1.5Kpa for N	i. IG o	r 2.75	KPa	for LPG.		
12.	Adjust the setting of the Gas Line Regulator (provided by others), to ach	ieve	these	pre	essures.		
13.	Allow system to warm up for 5 minutes, and burn off residual oil on heat tubes	and	l reflec	tors	•		
14.	Turn off the burner, observe gas valve shuts and all lights go off.						
	Wait for fan to stop and the pressure switch to reset then go through restart cy	cle,	items	/ to	11.		
15.	Repeat Item 13.						
16.	Refit regulator seal screw.						
17.	Disconnect manometer and refit brass screw on gas valve tapping. Close burner cover and secure with screws.						
18. 19.	Set the thermostat to the desired level (if supplied).						
19. 20.	Adjust the time clock (if fitted).				•		

X. COMMISSIONING REPORT AND CHECKLIST DATE: CLIENT: REF NO. INSTALLER: 1. SERIAL NO. 10. AIR FLOW SWITCH 2. TYPE OF SYSTEM **CORRECT OPERATION** A UTUBE PANEL - FORCED DRAUGHT - UP П NOT MAKING П B STRAIGHT PANEL - FORCED DRAUGHT - SP **NOT HOLDING** П C MULTIBURNER OTHER OBSERVATIONS: NO. OF BURNERS: 11. AIR PRESSURE AT BURNER GAS VALVE 3. CLEARANCE TO COMBUSTIBLES: MANIFOLD TEST POINT: (FAN ONLY) 4. DUCTING FITTED TO: 12. CORRECT FAN ROTATION: (a) BURNER INLET 13. EXHAUST TEMPERATURE AFTER 10 MIN.OPERATION: (b) FAN DISCHARGE 5. GAS TYPE AIR TEMPERATURE AT BURNER INLET: (a) N.G. COMMISSIONING PERSONNEL: (b) L.P.G. (a) CLIENT: П 6. L.P. GAS TANK (b) INSTALLER: (a) CAPACITY: (c) OTHER: (b) PRESSURE: 7. IS A REGULATOR FITTED TO MAIN GAS PERSONNEL NOTIFIED OF COMPLETION OF COMMISSIONING AND GENERAL OPERATION OF SYSTEM: \square YES \square NO MAIN PRESSURE 8. GAS LINE PRESSURE SUPPLIED AT BURNER (N.G. 1.1 - 1.5KPa), (L.P.G. 2.75 - 3.0KPa) NOTE! Inlet gas pressure must be Measured and achieved when all burners including burner under test and all other gas appliances are running. 9. GAS PRESSURE AT BURNER GAS VALVE ITEMS FOUND AT COMMISSIONING: MANIFOLD TEST POINT: N.G. (REQUIRED 0.9 KPa) YES NO LPG (REQUIRED 2.5KPa) YES NO NOTE! Manifold gas pressure must be Measured and adjusted when all Systems are running.

IMPORTANT

The above commissioning report must be submitted to CELMEC to register and validate the warranty.

XI. FIELD SERVICE REPORT

<u>IMPORTANT</u> This Field Service Report must be submitted to CELMEC, to (Page 11) before assistance can be given under warranty.	ogether with the Commissioning Report
DATE:	FAX NO. ()
PROJECT NAME:	INSTALLED BY:
INSTALLATION ADDRESS:	
CONTACT NAME:	TEL. NO. ()
DATE OF PURCHASE:	COMMISSIONED BY:
UNIT SERIAL NOS.	
Please circle the following fault numbers applicable.	
BRIEF DESCRIPTION:	
Transportation damage	
2. Installation problem	
3. Missing components	
4. Burner sequence not working	
5. Condensation	
6. Electrical installed incorrectly	
7. Other	
PREVENTIVE MAINTENANCE:	
1. 12 months annual service required	
2. Unit is not working after summer period	
3. Accessability - off ladder, scissor lift required, boom lift requi	red,
OTHER COMMENTS:	

CELMEC INTERNATIONAL PTY LTD ABN 66514 732 689
Head Office & Export Enquiries: 2 Powlett Street, Moorabbin, P O Box 3093, Moorabbin East LPO, Vic. 3189 Australia.

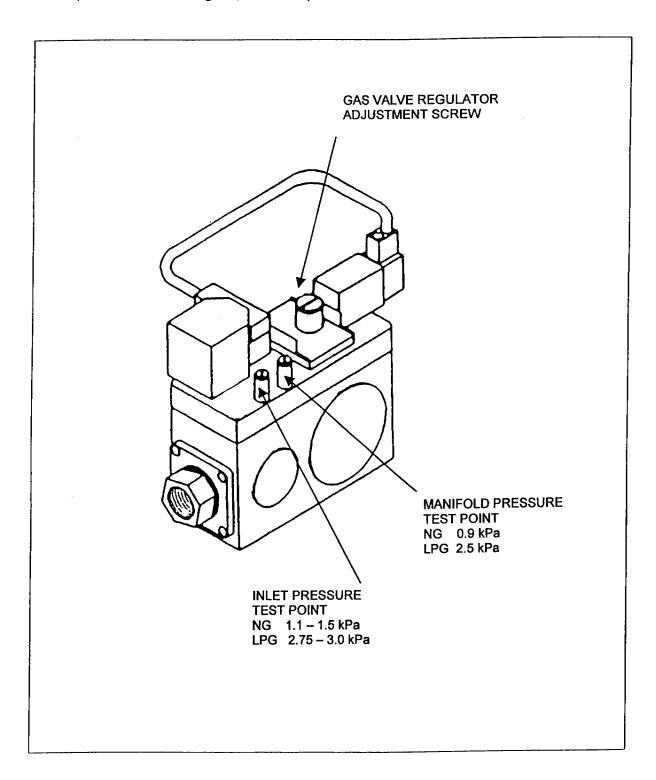
Phone: 61 3 9555 3667 Fax: 61 3 9555 9723

X. COMMISSIONING REPORT AND CHEC	KLIST	·	
CLIENT:			DATE:
INSTALLER:			REF NO.
1. SERIAL NO.		10. AIR FLOW SWITCH	
2. TYPE OF SYSTEM		CORRECT OPERATION	П
A U TUBE PANEL - FORCED DRAUGHT - UP		NOT MAKING	П
B STRAIGHT PANEL - FORCED DRAUGHT - SP	П	NOT HOLDING	П
C MULTIBURNER	П	OTHER OBSERVATIONS:	
NO. OF BURNERS:	<u></u>		
3. CLEARANCE TO COMBUSTIBLES:		11. AIR PRESSURE AT BURNER	GAS VALVE
·		MANIFOLD TEST POINT: (FA	
4. DUCTING FITTED TO:		12. CORRECT FAN ROTATION:	
(a) BURNER INLET		13. EXHAUST TEMPERATURE	
(b) FAN DISCHARGE		AFTER 10 MIN.OPERATION:	
5. GAS TYPE		ALD TEMPEDATURE AT RURA	
		AIR TEMPERATURE AT BURN	ER INLET:
(a) N.G.		COMMISSIONING PERSONNEL:	
(b) L.P.G.		(a) CLIENT:	
6. L.P. GAS TANK		(b) INSTALLER:	
(a) CAPACITY:		(c) OTHER:	
(b) PRESSURE:			
IS A REGULATOR FITTED TO MAIN GAS LINE?		PERSONNEL NOTIFIED OF COMP COMMISSIONING AND GENERAL	LETION OF
□ YES □ NO		OPERATION OF SYSTEM:	
MAIN PRESSURE			
8. GAS LINE PRESSURE SUPPLIED AT BURNER (N.G. 1.1 - 1.5KPa), (L.P.G. 2.75 - 3.0KPa)			
NOTE! Inlet gas pressure must be			
Measured and achieved when all burners including burner under			
test and all other gas appliances			
are running.			
9. GAS PRESSURE AT BURNER GAS VALVE MANIFOLD TEST POINT:		ITEMS FOUND AT COMMISSIONIN	IG:
N.G. (REQUIRED 0.9 KPa) TYES NO			
LPG (REQUIRED 2.5KPa) 🛘 YES 🗆 NO			
NOTE! Manifold gas pressure must be Measured and adjusted when all Systems are running.			

<u>IMPORTANT</u>
The above commissioning report must be submitted to CELMEC to register and validate the warranty.

XIII. GAS VALVE TEST POINTS (SCHEMATIC)

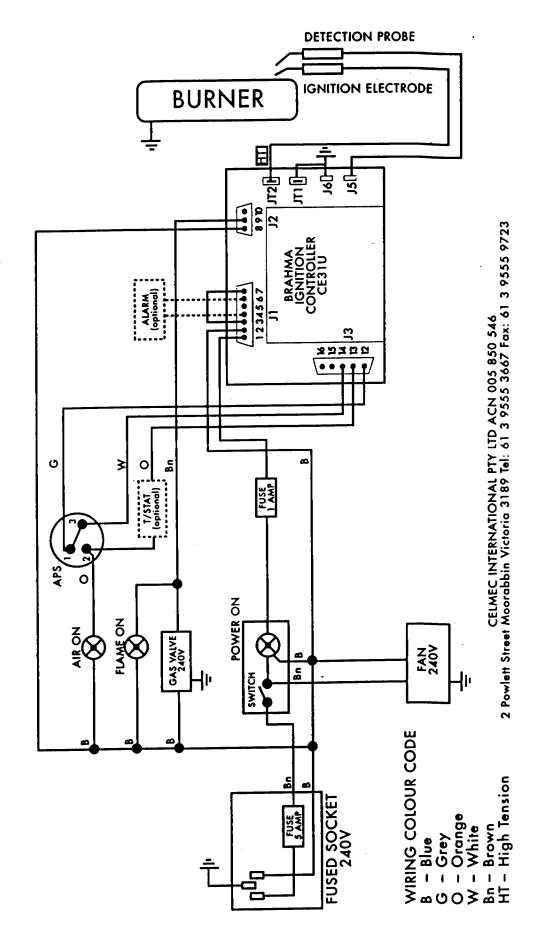
(Refer Section IX. - Page 10, START-UP)



HeatRay



Gas Fired Tube Radiant Heating WIRING DIAGRAM, BURNER CONTROL & FLAME SAFEGUARD



XII. ACCESSORIES

PART NO.	DESCRIPTION	FD	QTY
	DISCHARGE FLUE KIT - RA003		
101	High Temp Flex, 500mm long - 89 Dia.	1	
104	Cowl - 127 Dia.	1	
105	Flue 3000mm. long - 127 Dia.	1	
106	High Temp Dektite - 127 Dia.	1	
107	Worm Drive Clamps - 89 Dia.	2	
108	Flue Adaptor 89 to 127 Dia.	1	
	INLET DUCT KIT - RA001		
101	Low Temp Flex, 500mm long - 127 Dia.	1	
104	Cowl - 127 Dia.	1	
105	Flue 3000mm long - 127 Dia.	1	
106A	Low Temp Dektite - 127 Dia.	1	
107A	Worm Drive Clamps - 127 Dia.	2	
	OTHER OPTIONS		
414	Suspension Chain		
418	Heat Shield		
420	Side Shield		
501	Control Panel		

Goods checked for defects		••••••••••••	•••••
Quantities checked	••••••		••••••
No. of packages			