Guidance Notes

KEEP FOR REFERENCE

This manual contains important safety information

ATEX GODKJENT

Høy trykk væske varmer

400 bar Arbeidstrykk

modeler:

60-2041	**110V H.P. Heater**
60-2040	**240V H.P. Heater 3,2KW**
60-2051	**480V H.P. Heater**

Inhold

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2.0 Sikkerhet

2.1 Warning Symbol

WARNING

This symbol alerts you to the possibility of serious injury or death if you do not follow the guide information.

2.2 Caution Symbol

CAUTION

This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the guide information.

2.3 Warning + Information

WARNING

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to fail or malfunction and may result in serious injury.

- This equipment is for professional use only.
- Read all information manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are uncertain about usage, call CoverCat.
- Do not alter or modify this equipment. Use only genuine CoverCat parts and accessories.
- Check equipment regularly, at least daily . Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure of the lowest rated system component. Refer to the system manual and specifications.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose CoverCat hoses to temperatures above 80°C (180 °F) or below –40°C (–40°F).
- Do not bend or kink hoses.
- Do not use the hoses to pull the equipment.
- Do not lift pressurised equipment.
- Use only CoverCat approved hoses. Do not remove hose spring guards, where fitted, which help protect the hose from rupture caused by kinks or bends near the couplings.
- Use fluids and solvents that are compatible with the equipment wetted parts. Refer to the **Technical Data** section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
- Wear eye and hearing protection and other protection as required when operating this equipment.
- Comply with all applicable local, state, national, fire, electrical, and safety regulations.
- **If in doubt, ask**

MOVING PARTS HAZARD

- Moving parts can pinch or amputate your fingers and body parts.
- Do not operate the equipment with guards or other parts removed.
- Keep clear of all moving parts when starting or operating the pump.
- Before checking or servicing the equipment, follow the **Pressure Relief Procedure** to prevent the equipment from starting unexpectedly operating or causing other accident or damage
- **If in doubt, ask**

Safety is a very important issue and must never be ignored at any time.

This equipment is designed to be safe in the hands of trained operators and must never be used by untrained and inexperienced persons without professional, qualified supervision.

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2.4 Warnings and Information

WARNING

INJECTION HAZARD

Spray from the gun, the hoses, ruptured or damaged components can inject fluid into your body and causes extremely serious injury, including possible need for amputation. Splashing fluid in the eyes or on the skin can also cause serious injury.

- Fluid injected into the skin might look like just a cut, but it is a serious injury. Get immediate medical attention.
- Do not point the spray gun at anyone or at any part of the body.
- Do not put your hand or fingers over the spray tip.
- Do not stop, attempt to stop or deflect leaks with your hand, body, a glove or a rag or other items.
- Do not "blow back" fluid such as in an air spray system.
- Be sure the gun safety trigger operates properly before spraying.
- Lock the gun trigger safety when you stop spraying.
- Follow the Pressure Relief Procedure whenever you: are instructed to relieve pressure; stop spraying; clean, check, or service the equipment; and install or clean the spray tip.
- Tighten all fluid connections before operating the equipment.
- Check all hoses and couplings daily. Replace worn, damaged, or loose parts immediately.
- Permanently coupled hoses cannot be repaired; replace the entire hose.
- **If in doubt ask.**

FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames, or sparks can cause a hazardous condition and result in fire or explosion and serious injury.

- Ground the equipment and the object being sprayed. See **Grounding.**
- Provide fresh air ventilation to avoid the build up of flammable fumes from solvents or the fluid being sprayed.
- Keep the spray area free of debris, including solvent, rags, and gasoline.
- Before operating this equipment, electrically disconnect all equipment in the spray area.
- Before operating this equipment, extinguish all open flames or pilot lights in the spray area.
- Do not smoke in the spray area.
- Do not turn on or off any light switch in the spray area while operating or if fumes are present.
- Do not operate a gasoline engine in the spray area.
- If there is any static sparking while using the equipment, **stop spraying immediately**. Identify and correct the problem.

TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or swallowed.

- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Always wear protective eye wear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer.

CoverCat do not manufacture or supply any of the reactive chemical components that may be used in this equipment and is not responsible for their effects. CoverCat assumes no responsibility for loss, damage, expense or claims for personal injury or property damage, direct or consequential, arising from the use of such chemical components.

3.0 Pressure Relief Procedure

WARNING

INJECTION HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you :

- are instructed to relieve the pressure
- stop spraying
- check or service any of the system equipment
- install or clean spray tips

3.1 Pressure Relief Procedure

1. Lock the spray gun trigger safely and remove the Spray Tip Assembly.

2. Shut off the Air/Power supply to the pump

3. Close the relieving air valve at the main air motor.

4. Unlock the spray gun trigger safely.

5. Hold a metal part of the gun firmly to the side of a grounded metal pail, and trigger the gun to relieve pressure, carefully and avoiding splashes.

6. Lock the spray gun trigger safely

7. Open the fluid drain valve at the High Pressure Outlet **or** Return Valve and have a suitable container ready to catch the drainage.

Return Valve

8. Leave the fluid drain valve/ return valve open until you are ready to spray again

9. With rapid cure materials it may be necessary to operate the flush system to clear out mixed material from the system to avoid clogging hoses etc with cured material. If required open main air supply and operate the flushing system as required.

CAUTION

It is possible that pressure may be held in the system by blockage or back pressure from other system components. Take great care to inspect the system for blockage and retained pressure. **If in doubt ask**.

10. If you suspect that the spray gun or hose is completely blocked, or that pressure has not been fully relieved after following the steps above the pressure must be manually released. Ensure that the air supply is turned off. Very slowly loosen the spray gun hose coupling or hose end coupling at the outlet manifold and relieve pressure gradually, keeping the release slow and covered over to prevent splashes. then loosen completely. Now clear the tip or hose with the pump system using care and attention at all times.

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4.0 Installation

General Information

The heater will operate any position, but only certain positions will allow correct and sufficient bleeding with low viscosity fluids.

1 The optimum position is with the heater mounted vertically. The fluid enters from the bottom, and exits from the top.

2 The heater can be used horizontally, but best results are achieved when the material enters and exits from above, ie. the heater is mounted as low as possible.

Flushing before use

3 The fluid in the heater that was used for testing will need to be flushed away before use, to prevent contamination with your process fluids.

4 In order to achieve a constant temperature, the material should be re-circulated through the system if possible.

5 If the system is stopped for a period of time, it is best to flush the heater, and leave the flush fluid in the heater. This prevents the process fluid from going hard inside the heater

4.1 Grounding

WARNING

FIRE AND EXPLOSION HAZARD

Before operating the pump, ground the system as explained below. Also read the section **FIRE AND EXPLOSION HAZARD**

1. **Pump** : Use a ground wire and clamp as shown in your separate pump manual
2. **Air or Hydraulic Hoses** : Use only electrically conductive hoses
3. **Fluid Hoses** : Use only electrically conductive fluid hoses
4. **Air Compressor or Hydraulic Supply** : Follow the manufacturers recommendations
5. **Spray Gun** : Ground by connecting the gun to a properly grounded fluid hose and pump
6. **Fluid Supply Container** : Follow your local code
7. **Object Being Sprayed** : Follow your local code
8. **Solvent Pails Used When Flushing:** Follow your local code. Use only metal pails, which are conductive, placed on a grounded surface. Do not place the pail on a non conductive surface, such as paper or cardboard, which interrupts the grounding continuity
9. **To Maintain Grounding Continuity When Flushing or Relieving Pressure:** Hold a metal part of the spray gun firmly to the side of a grounded metal pail, then trigger the gun.
10. If in doubt ask.

5.0 Operation

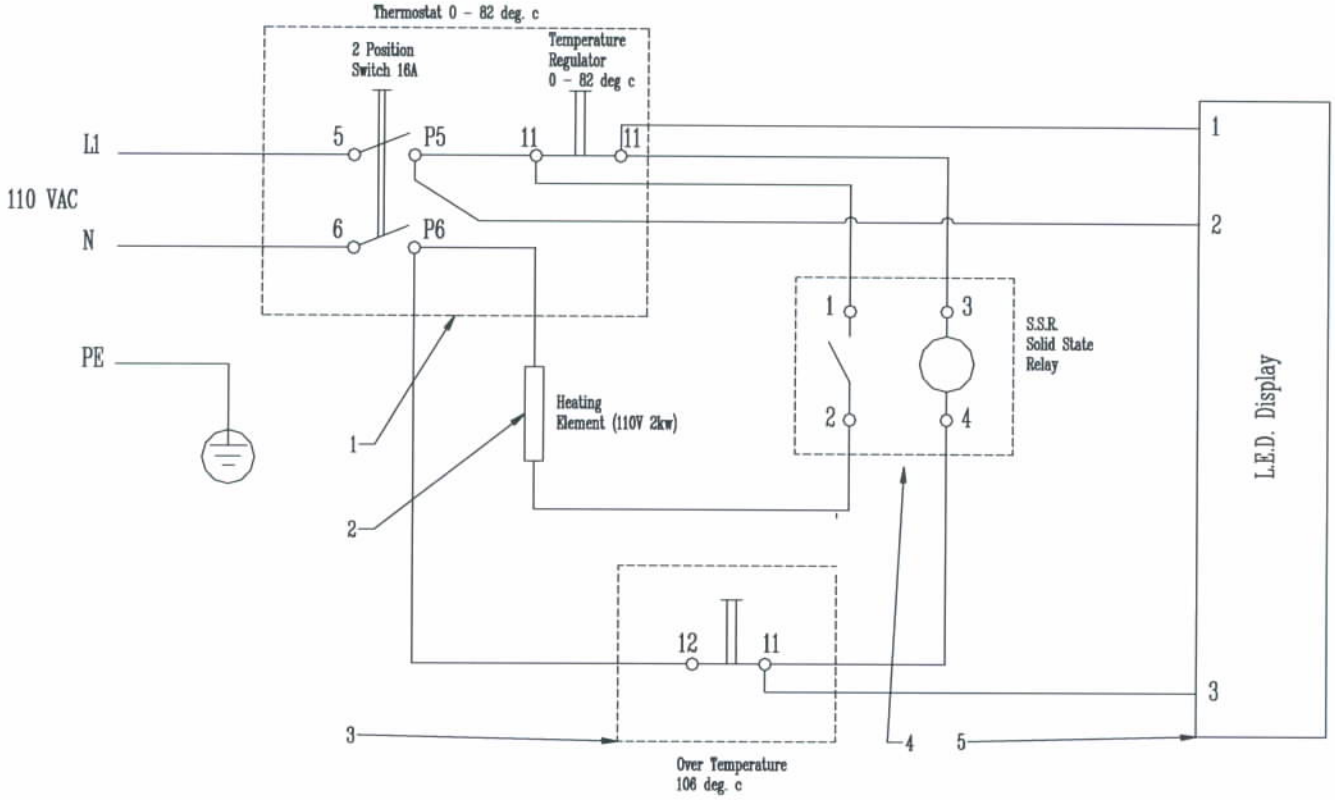
The temperature Control Knob that is situated on the top of the heater, serves two functions:

The first function of the knob is to turn the heater on, this is achieved by turning the knob clockwise from the 0 position. Once on the Green indicator light on the front of the heater will be illuminated.

The second function of the Control Knob is to set the thermostat to the correct temperature, which is required. When turning the Control Knob clockwise from the 0 position, the Green will be on (power on) as the knob is rotated further clockwise the Red light will be lit. The Red light indicates that the temperature of the heater is below the set temperature of the thermostat and that the heating element has been turned on.

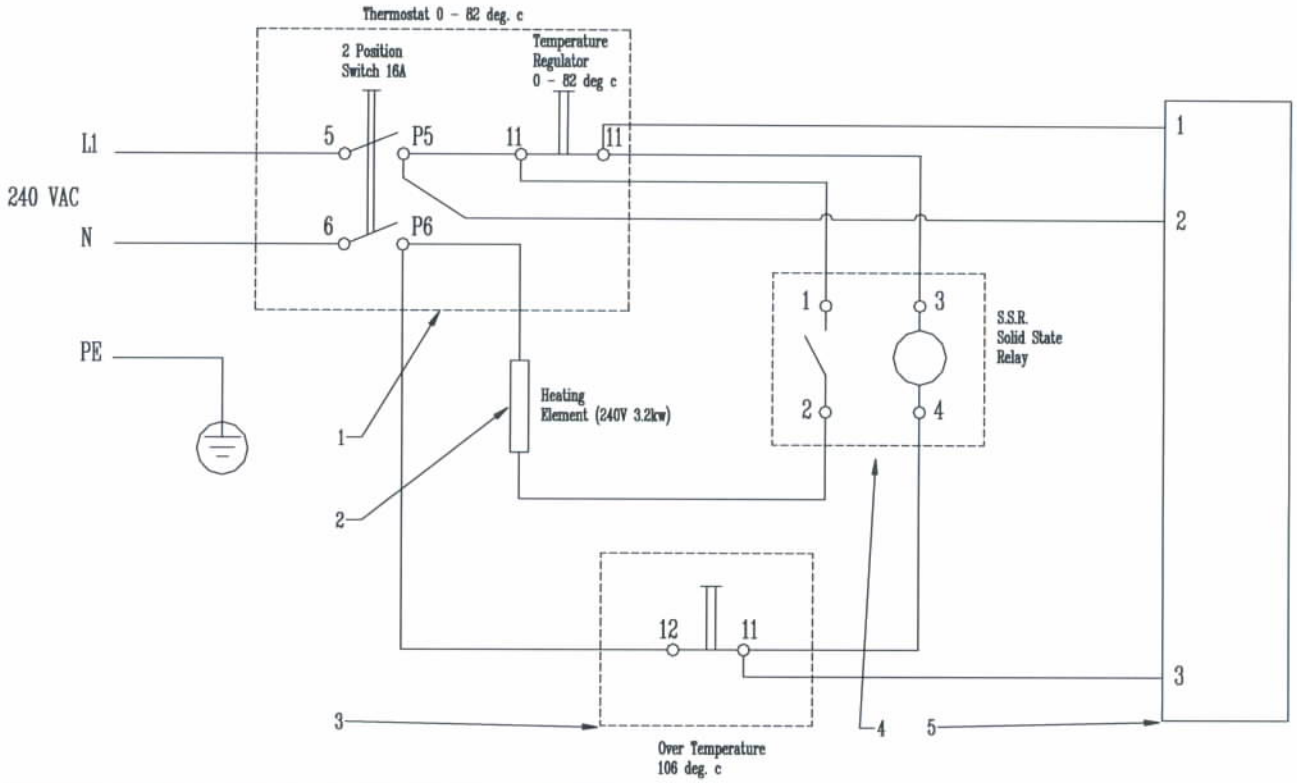
6.0 Technical Data

6.1 110 Volt, High Pressure Heater (60-2041)



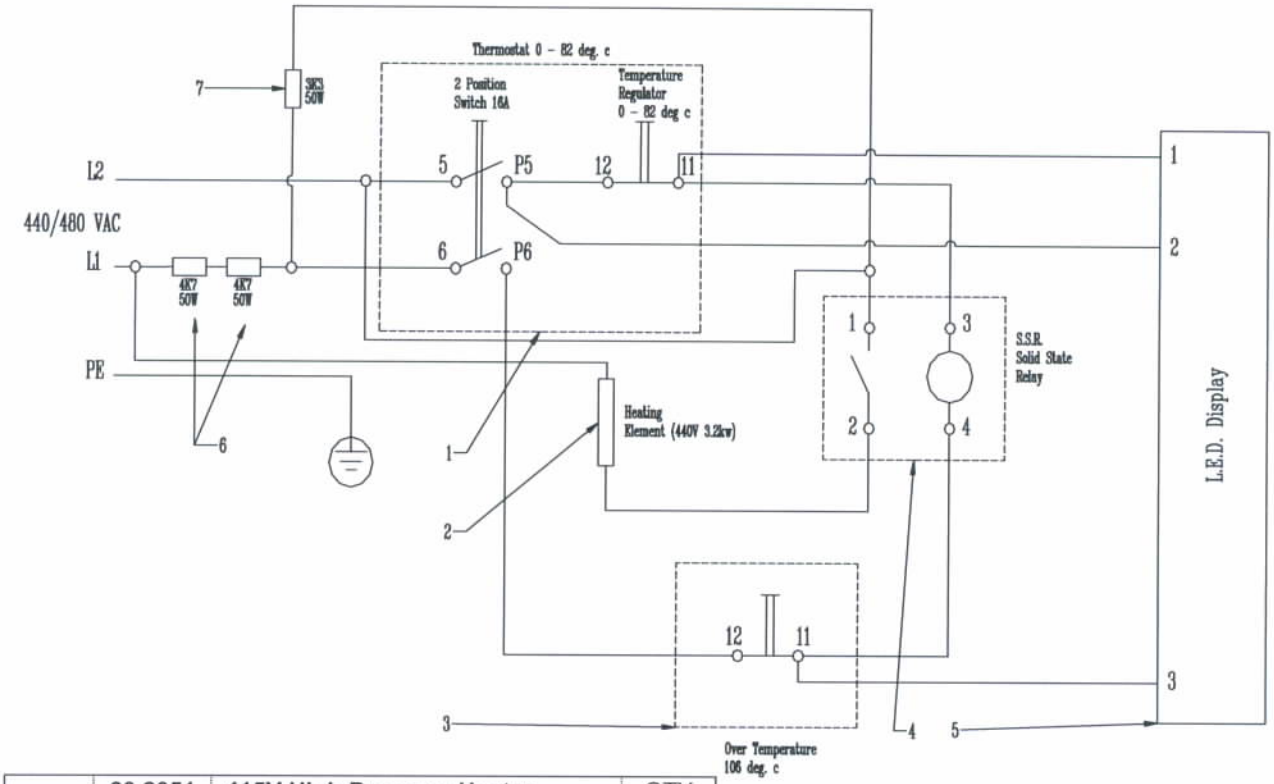
	60 2041	110V High Pressure Heater	
1	60 2043	Thermostat 0 – 82c	1
2	60 7200	Heating Element 110v 2kw	1
3	60 2053	Over Temp Thermostat	1
4	60 1273	SSR Relay 110v / 240v	1
5	60 2056	Digital LCD Display	1

6.2 240 Volt, High Pressure Heater (60-2040)



	60 2040	240V High Pressure Heater	QTY
1	60 2043	Thermostat 0 – 82c	1
2	60 7203	Heating Element 240v 3.2kw	1
3	60 2053	Over Temp Thermostat	1
4	60 1273	SSR Relay 110v / 240v	1
5	60 2056	Digital LCD Display	1

6.3 415 Volt, High Pressure Heater (60-2051)



	60 2051	415V High Pressure Heater	QTY
1	60 2043	Thermostat 0 – 82c	1
2	60 7201	Heating Element 440v 3.2kw	1
3	60 2053	Over Temp Thermostat	1
4	60 1270	SSR Relay 440v	1
5	60 2056	Digital LCD Display	1
6	60 1268	4K7 50Watt Resistor	2
7	60 1269	3k3 50Watt Resistor	1

7.0 Dimensions