

DOCUMENTATION

PAINT HEATER

HP 60 / HP 61 / BP60

Manual : 582.020.110-UK - 1705

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Modif.: 578.038.130

TRANSLATION FROM THE ORIGINAL MANUAL

IMPORTANT : Before assembly and start-up, please read and clearly understand all the documents relating to this equipment (professional use only).

THE PICTURES AND DRAWINGS ARE NON CONTRACTUAL. WE RESERVE THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE..

SAMES KREMLIN SAS

13, chemin de Malacher
38 240 - MEYLAN - France
 : 33 (0)4 76 41 60 60

www.sames-kremlin.com



<p style="text-align: center;">FR</p> <p><u>Pour une utilisation sûre, Il est de votre responsabilité de :</u></p> <ul style="list-style-type: none"> • Lire attentivement tous les documents contenus dans le CD joint avant la mise en service de l'équipement, • D'installer, d'utiliser, d'entretenir et de réparer l'équipement conformément aux préconisations de SAMES KREMLIN ainsi qu'aux réglementations nationales et/ou locales, • Vous assurez que les utilisateurs de cet équipement ont été formés, ont parfaitement compris les règles de sécurité et qu'ils les appliquent. 	<p style="text-align: center;">UK</p> <p><u>To ensure safe use of the machinery, it is your responsibility to:</u></p> <ul style="list-style-type: none"> • Carefully read all documents contained on the enclosed CD before putting the machinery into service, • Install, use, maintain and repair the machinery in accordance with SAMES KREMLIN's recommendations and national and/or local regulations, • Make sure that the users of the machinery have received proper training and that they have perfectly understood the safety rules and apply them. 	<p style="text-align: center;">DE</p> <p><u>Eine sichere Nutzung setzt voraus, dass Sie: :</u></p> <ul style="list-style-type: none"> • alle in der CD enthaltenen Dokumente vor der Inbetriebnahme der Anlage aufmerksam lesen, • die Anlage im Einklang mit den Empfehlungen von SAMES KREMLIN sowie mit den nationalen und/oder lokalen Bestimmungen installieren, verwenden, warten und reparieren, • sich vergewissern, dass die Nutzer dieser Anlage angemessen geschult wurden, die Sicherheitsbestimmungen verstanden haben und sie anwenden.
<p style="text-align: center;">ES</p> <p><u>Para una utilización segura, será de su responsabilidad:</u></p> <ul style="list-style-type: none"> • leer atentamente todos los documentos que se incluyen en el CD adjunto antes de la puesta en servicio del equipo, • instalar, utilizar, efectuar el mantenimiento y reparar el equipo con arreglo a las recomendaciones de SAMES KREMLIN y a la normativa nacional y/o local, • cerciorarse de que los usuarios de este equipo han recibido la formación necesaria, han entendido perfectamente las normas de seguridad y las aplican. 	<p style="text-align: center;">IT</p> <p><u>Per un uso sicuro, vi invitiamo a:</u></p> <ul style="list-style-type: none"> • leggere attentamente tutta la documentazione contenuta nel CD allegato prima della messa in funzione dell'apparecchio, • installare, utilizzare, mantenere e riparare l'apparecchio rispettando le raccomandazioni di SAMES KREMLIN, nonché le normative nazionali e/o locali, • accertarvi che gli utilizzatori dell'apparecchio abbiano ricevuto adeguata formazione, abbiano perfettamente compreso le regole di sicurezza e le applichino. 	<p style="text-align: center;">PT</p> <p><u>Para uma utilização segura, é da sua responsabilidade:</u></p> <ul style="list-style-type: none"> • Ler atentamente todos os documentos incluídos no CD em anexo antes de pôr o equipamento em funcionamento, • Proceder à instalação, utilização, manutenção e reparação do equipamento de acordo com as preconizações de SAMES KREMLIN, bem como com outros regulamentos nacionais e/ou locais aplicáveis, • Assegurar-se que os utilizadores do equipamento foram devidamente capacitados, compreenderam perfeitamente e aplicam as devidas regras de segurança.
<p style="text-align: center;">NL</p> <p><u>Voor een veilig gebruik dient u:</u></p> <ul style="list-style-type: none"> • alle document op de bijgevoegde cd aandachtig te lezen alvorens het apparaat in werking te stellen, • het apparaat te installeren, gebruiken, onderhouden en repareren volgens de door SAMES KREMLIN gegeven aanbevelingen en overeenkomstig de nationale en/of plaatselijke reglementeringen, • zeker te stellen dat de gebruikers van dit apparaat zijn opgeleid, de veiligheidsregels perfect hebben begrepen en dat zij die ook toepassen. 	<p style="text-align: center;">SE</p> <p><u>För en säker användning av utrustningen ansvarar ni för följande:</u></p> <ul style="list-style-type: none"> • Läs noga samtliga dokument som finns på den medföljande cd-skivan innan utrustningen tas i drift. • Installera, använd, underhåll och reparera utrustningen enligt anvisningarna från SAMES KREMLIN och enligt nationella och/eller lokala bestämmelser. • Försäkra er om att användare av denna utrustning erhållit utbildning, till fullo förstått säkerhetsföreskrifterna och tillämpar dem. 	<p style="text-align: center;">FI</p> <p><u>Käytön turvallisuuden varmistamiseksi velvollisuutesi on:</u></p> <ul style="list-style-type: none"> • Lukea huolella kaikki CD:llä olevat asiakirjat ennen laitteiston käyttöönottoa, • Noudataa laitteiston asennuksessa, käytössä, kunnossapidossa ja huollossa SAMES KREMLIN in suosituksia sekä kansallisia ja/tai paikallisia määräyksiä, • Varmistaa, että laitteiston käyttäjät ovat koulutettuja ja ymmärtävät täysin turvallisuusmääräykset ja miten niitä sovelletaan.
<p style="text-align: center;">PL</p> <p><u>Dla zapewnienia bezpiecznego użytkowania na użytkownika spoczywa obowiązek:</u></p> <ul style="list-style-type: none"> • Uwážnego zapoznania się ze wszystkimi dokumentami znajdującymi się na załączonej płycie CD przed pierwszym uruchomieniem urządzenia, • Instalowania, użytkowania, konserwacji i naprawy urządzenia zgodnie z zaleceniami firmy SAMES KREMLIN oraz z przepisami miejscowymi, • Upewnienia, że wszyscy przeszkoleni użytkownicy urządzenia zrozumieli zasady bezpieczeństwa i stosują się do nich. 	<p style="text-align: center;">CS</p> <p><u>Pro bezpečné používání jste povinni:</u></p> <ul style="list-style-type: none"> • Před uvedením zařízení do provozu si pozorně přečt' veškeré dokumenty obsažené na přiloženém CD, • Nainstalovat, používat, udržovat a opravovat zařízení v souladu s pokyny firmy SAMES KREMLIN a s národními a/nebo místními legislativními předpisy, • Ujistit se, že uživatelé tohoto zařízení byli vyškoleni, že dokonale pochopili bezpečnostní pravidla a že je dodržují. 	<p style="text-align: center;">SL</p> <p><u>Za varno uporabo ste dolžni:</u></p> <ul style="list-style-type: none"> • natančno prebrati vse dokumente na CD pred zagonom stroja, • instalirati, uporabljati, vzdrževati in popravljati opremo po določilih SAMES KREMLIN in v skladu z veljavnimi nacionalnimi in/ali lokalnimi predpisi, • poskrbeti, da so uporabniki te opreme ustrezno usposobljeni, poznajo varnostne predpise in da jih upoštevajo.
<p style="text-align: center;">SK</p> <p><u>V záujme bezpečného je vašou povinnosťou:</u></p> <ul style="list-style-type: none"> • pozorne si prečítať všetky dokumenty obsiahnuté na priloženom CD predtým, ako zariadenie uvediete do prevádzky, • nainštalovať, používať, udržiavať a opravovať zariadenie v súlade s odporúčaniami spoločnosti SAMES KREMLIN a národnými a/alebo miestnymi predpismi, • uistiť sa, že používatelia tohto zariadenia boli zaškolení, riadne porozumeli pravidlám bezpečnosti a používajú ich. 	<p style="text-align: center;">HU</p> <p><u>A biztonságos használat érdekében az Ön felelőssége, hogy:</u></p> <ul style="list-style-type: none"> • a berendezés üzembe helyezése előtt figyelmesen elolvassa a mellékelt CD által tartalmazott összes dokumentumot, • a berendezést a SAMES KREMLIN ajánlásainak valamint a nemzeti és/vagy helyi szabályozásoknak megfelelően helyezze üzembe, használja, tartsa karban és javítsa, • megbizonyosodjon róla, hogy a berendezés felhasználói képzettek, tökéletesen megértették és alkalmazzák a biztonsági előírásokat. 	<p style="text-align: center;">RO</p> <p><u>Pentru o utilizare sigură, este responsabilitatea dvs. să:</u></p> <ul style="list-style-type: none"> • Citiți cu atenție toate documentele de pe CD-ul anexat, înainte de punerea în funcțiune a echipamentului, • Instalați, utilizați, întrețineți și reparați echipamentul conform instrucțiunilor SAMES KREMLIN precum și reglementărilor naționale și/sau locale, • Vă asigurați că utilizatorii acestui echipament au fost instruiți, au înțeles perfect regulile de securitate și le aplică integral.

Déclaration(s) de conformité au verso de ce document / Declaration(s) of conformity at the back of this document / Konformitätserklärung(en) auf der Rückseite dieser Unterlage / Declaración (es) de conformidad en el reverso de este documento / Dichiarazione/i di conformità sul retro del presente documento / Declaração(ões) de conformidade no verso do documento / Conformiteitsverklaring(en) op de keerzijde van dit document / Försäkran om överensstämmelse på omstående sida av detta dokument / Vaatimustenmukaisuusvakuutukset tämän asiakirjan kääntöpuolella / Deklaracja(e) zgodności na odwrocie dokumentu / Prohlášení o shodě se nachází/nacházejí na zadní straně tohoto dokumentu / Deklaracja(e) o skladnosti na hrtni strani tega dokumenta / Vyhlášení/-a o zhode sa nachádzajú na zadnej strane dokumentu / A dokumentum hátlapján szereplő megfeleléségi nyilatkoz(ok) / Declarații de conformitate pe versoul acestui document



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HP 60
HP 61
BP 60

Est conforme à la législation d'harmonisation de l'Union applicable suivante / Is in conformity with the relevant Union harmonisation legislation / Erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union / es conforme con la legislación de armonización pertinente de la Unión / è conforme alla pertinente normativa di armonizzazione dell'Unione / in overeenstemming met de desbetreffende harmonisatiewetgeving van de Unie / med den relevanta harmoniserade unionslagstiftningen / on asiaa koskevan unionin yhdenmukaistamislainsäädännön vaatimusten mukainen / jest zgodny z odpowiednimi wymaganiami unijnego prawodawstwa harmonizacyjnego / Shoduje se s následující příslušnou evropskou harmonizační legislativou / V skladu s harmonizirano zakonodajo Unije / Je v súlade s uplatniteľnými harmonizačnými právnymi predpismi EÚ / Megfelelő a következő alkalmazandó uniós harmonizációs szabályozásnak / Este conform cu legislația aplicabilă de armonizare de mai jos

Directive Basse Tension / Low Voltage Directive / Niederspannung-Richtlinie / Directiva Baja Tensión / Direttiva Bassa Tensione / Directiva de Baixa Tensão / Richtlijn Laagspanning / Lågspänningsdirektiv / Pienjännitedirektiivi / Dyrektywa Niskonapięciowa / Směrnice Pro Nízké Napětí / Direktiva O Nízki Napetosti / Smernica O Nízkom Napätí / Feszültséghatárta Vonatkozó Irányelv / Directiva Privind Tensiunile Joase	2014/35/UE
EN 60204-1:2006 + A1:2009	

La présente déclaration de conformité est établie sous la seule responsabilité du fabricant / This declaration of conformity is issued under the sole responsibility of the manufacturer / Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller / La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante / La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante / A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante / Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant / Denna försäkran om överensstämmelse utfärdas på tillverkarens eget ansvar / Tämä vaatimustenmukaisuusvakuutus on annettu valmistajan yksinomaisella vastuulla / Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta / Toto prohlášení o shodě se vydává na výhradní odpovědnost výrobce / Za izdajo te izjave o skladnosti je odgovoren izključno proizvajalec / Toto vyhlásenie o zhode sa vydáva / na vlastnú zodpovednosť výrobcu / Ezt a megfelelőségi nyilatkozatot a gyártó kizárólagos felelőssége mellett adják ti / Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului.

Philippe PROVENAZ

Directeur Innovation & Développement / Innovation & Development Director / Direktor für Innovation & Entwicklung / Director de Inovación y Desarrollo / Direttore Innovazione e sviluppo / Diretor de Inovação / Manager Innovatie en Ontwikkeling / Direktör för Forskning och Utveckling / Innovaatio- ja kehitysjohtaja / Dyrektor ds. Innowacji I Rozwoju / Ředitel pro inovace a vývoj / Direktor za inovacije in razvoj / Riaditel' pre inováciu a rozvoj / Innovációs és fejlesztési igazgató / Director Inovație și Dezvoltare

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INSTALLATION AND SAFETY INSTRUCTIONS

TRANSLATION OF THE ORIGINAL MANUAL

IMPORTANT : Before assembly and start-up, please read and clearly understand all the documents relating to this equipment (professional use only).

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KREMLIN - REXSON

150, avenue de Stalingrad

93 245 - STAINS CEDEX – France

☎ : 33 (0)1 49 40 25 25 *Fax* : 33 (0)1 48 26 07 16

www.kremlin-rexson.com

1. SAFETY INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS



CAUTION : The equipment can be dangerous if you do not follow our instructions concerning installation and servicing described in this manual and in accordance with applicable European standards and local national safety regulations.

Please carefully read all the instruction literature before operating your equipment.

Only trained operators can use the equipment (To acquire an essential training, please contact the "KREMLIN REXSON University" training center - Stains).

The foreman must ensure that the operator has understood the safety instructions for this equipment as well as the instructions in the manuals for the different parts and accessories.

Read carefully all instruction manuals, label markings before operating the equipment.



















Incorrect use may result in injury. This equipment is for professional use only. It must be used only for what it has been designed for. Never modify the equipment. The parts and accessories supplied must be regularly inspected. Defective or worn parts must be replaced.

Guards (motor cover, coupling shields, connectors,...) have been designed for a safe use of the equipment.
The manufacturer will not be held responsible for bodily injury or failure and / or property damage due to destruction, the overshadowing or the partial or total removal of the guards.

Never exceed the equipment components' maximum working pressure.

Comply with regulations concerning safety, fire risks, electrical regulations in force in the country of final destination of the material. Use only products or solvent compatible with the parts in contact with the material (refer to data sheet of the material manufacturer).

PICTOGRAMS

					
NIP HAZARD	WARNING MOVING ELEVATOR	WARNING MOVING PARTS	WARNING MOVING SHOVEL	DO NOT EXCEED THIS PRESSURE	HIGH PRESSURE HAZARD
					
RELIEF OR DRAIN VALVE	WARNING HOSE UNDER PRESSURE	WEAR GLASSES OBLIGATORY	WEAR OF GLOVES IS OBLIGATORY	PRODUCT VAPOR HAZARDS	WARNING HOT PARTS OR AREAS
					
ELECTRICAL HAZARD	WARNING FIRE HAZARDS	EXPLOSION HAZARDS	GROUNDING	WARNING (USER)	WARNING SERIOUS INJURIES

FIRE - EXPLOSION - SPARKS - STATIC ELECTRICITY HAZARDS

A poor earth connection, inadequate ventilation, sparks or static electricity can cause an explosion or fire. to avoid these risks when using or servicing KREMLIN REXSON equipment, the following safety procedures must be followed :



- ensure a good earth connection and ground the parts to be handled i.e. solvents, materials, components and equipment,
- ensure adequate ventilation,
- keep working area clean and free from waste solvents, chemicals, or solid waste i.e. rags, paper and empty chemicals drums,
- never use electrical switches / power if in an atmosphere of volatile solvent vapour,
- stop working immediately in case of electrical arcs,
- never store chemicals and solvents in the working area.
- use paint whose flash point is the highest possible to prevent from any formation of gas and inflammable vapours (refer to materials' safety instructions),
- install a cover on the drums to reduce the diffusion of gas and vapours in the spraybooth.

TOXIC PRODUCT HAZARDS

Toxic products or vapours can cause severe injury not only through contact with the body, but also if the products are ingested or inhaled. It is imperative :



- to know the material products and their risks,
- notified or hazardous materials must be stored in accordance with the regulations,
- the material must be stored in an appropriate container, never place materials in a container where there is a risk of spillage or leakage,
- a procedure must be applied for the safe disposal of waste material. It must comply with all prevailing regulations and legislations of the country where the equipment is to be used,
- protective clothing should always be worn in compliance with the material manufacturers' recommendations,
- depending on the application and chemical safety instructions, safety glasses, hearing protective earplug, gloves, foot wear, protective masks and possible breathing equipment should be worn to comply with the regulations (Refer to chapter "Safety equipment of KREMLIN selection guide).



CAUTION!



It is forbidden to use material containing high concentrations of halogenated hydrocarbon solvents with **aluminium or zinc fillers** .Non-compliance with the instructions may cause explosion risk causing serious or fatal injury.

EQUIPMENT REQUIREMENTS

Guards (motor cover, coupling shields, connectors,...) have been designed for a safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or property damage due to destruction, the overshadowing or the partial or total removal of the guards.

PUMP



Before carrying out any work, it is imperative to read and clearly understand the disassembly and reassembly instructions before servicing. The operator must understand the equipment and the safety instructions. These instructions are available in the equipment manuals.



The air motor is designed to be mounted with a pump. Never modify any components or couplings. When operating, please keep hands away from moving parts. Before starting up the equipment, please read the PRESSURE RELIEF instructions. Please ensure that any relief or drain valves fitted are in good working order.

HOSES

- Keep hoses out of circulation areas, moving parts or hot surfaces,
- Never expose product hoses to temperature higher than + 60°C / 140° F or lower than 0°C / 32° F,
- Never pull or use the hoses to move the equipment,
- Tighten all fittings as well as the hoses before operating the equipment,
- Check the hoses regularly; change them if they are damaged,
- Never exceed the working pressure (WP) indicated on the hose.

USED PRODUCTS

Considering the wide variety of products that are available and can be used in our equipment it is impossible to check and make recommendations for all chemical data, regarding the risks of possible chemical attack and their long term chemical reaction

KREMLIN REXSON can not be held liable for :

- Compatibility of wetted parts,
- Risks to staff and the surroundings,
- for worn or defective parts, for faulty equipment or units, or the quality of final product.

It is the responsibility of the user to know and prevent any possible risks such as toxic vapours, fires or explosions. He shall determine the risks of immediate reactions or pursuant to repeated exposures of the staff,

KREMLIN REXSON shall not be liable for physical injuries, direct or indirect material damages caused by the use of chemicals.

2. HANDLING



Check the weight and the dimensions of the equipment

(refer to 'Technical features' section of the instruction manual

If weight and dimensions are too important, the unloading must be carried out by means of a forklift or any other appropriate means with a qualified personnel and in a clear horizontal area to prevent from risks of damage injury or an accident.

The centre of gravity is not in the centre of the machine : carry out by hand a stability-test after having lifted the whole at 10 cm / 3.937" maximum.

After the unloading, the handling of the whole (eg: elevator pump) is carried out by means of a pallet truck taking the bottom part of the frame.

Remark : Each pump motor is fitted with a ring. The ring is designed for the hoisting of one pump and can not be used for the handling of the complete machine.

3. STORING

Storing before installation :

- Storing ambient temperature : 0 / +50 °C / 0 / +122°F
- Protect the whole against dust, water trickling, dampness and shocks.

Storing after installation :

- Operating temperature : +15 / +35 °C / +59 / +138.2° F
- Protect the whole against dust, water trickling, dampness and shocks.

4. INSTALLATION OF THE EQUIPMENT

The machine is installed on a stable horizontal floor (for eg a concrete flag).



To avoid risks caused by static electricity, the equipment as well as its components must be grounded.

- **For the pumping equipments** (pumps, pneumatic rams, frame...), a section wire of 2.5 mm² is fixed on the material. Use this wire to connect the material to "the general ground". In case of severe environments (mechanical protection of the wire of earthing insufficient, vibrations, mobile material...) where function damages at the ground are probable, the user have to replace the provided wire of 2.5 mm² by a device more adapted to its environment (wire with a more important section, bonding strip, fixing by thimble with eyelet...),

The continuity of the ground must be controlled by a qualified electrician. If the continuity of the ground is not ensured, check the terminal, the wire and the earthing point. **Never** use the material without have solved this problem.

- In the severe cases of environments (mechanical protection of the wire of earthing insufficient, vibrations, mobile material...) where damages of the function put at the ground are probable, the user will have to replace the wire of 2.5 mm² provided, by a device more adapted to its environment (wire of more important section, bonding strip, fixing by thimble with eyelet...),
- **The gun** must be 'grounded' via a material hose or an air hose. In case of spraying by means of a gun with cup, the air hose must be conductive,
- **The materials to be painted** must also be grounded.

All the materials situated in the working area shall be grounded.



- **Never store** more than necessary inflammable materials inside the working area,
- The materials must be stored into **approved drums** and grounded,
- Use only grounded **metals containers** for the use of cleaning solvents,
- **Cardboard and paper are prohibited.**

5. MARKING OF THE EQUIPMENT

Each equipment has a marking plate.

The plate consists of the name of the manufacturer, the equipment part number and important information for correct use of the equipment (air pressure, electric power,...).



PAINT HEATER

HP 60 / HP 61 / BP 60

Specific safety instructions

TRANSLATION OF THE ORIGINAL MANUAL

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The HP 60 / HP 61 / BP 60 paint heater shall be installed outside the explosive area. It shall be in a safe area (non explosive area according to the ATEX directive) and to prevent from any formation of gas and non-flammable vapours must be used with water-based products whose flash point is > 60° C / 140° F.

In an explosive area, install only an explosion-proof heater (AD 60 / AD 61).

CAUTION : Any misuse of the equipment or accessories can damage them, result in serious body injury, fire or explosion hazard and reduce the equipment working life. Read, understand and comply with the safety instructions hereafter.

The personnel involved in operating and servicing this equipment must be aware of all safety requirements stated in this manual. The workshop supervisor must be certain that the personnel has perfectly understood the safety instructions and comply with them.

Read all instruction manuals as well as the tags of the equipments before operating the equipment.

Refer to local safety instructions and comply with them.

■ **INSTALLATION REQUIREMENTS**

➔ **Ground the equipment.**

Use the equipment only in a **well-ventilated** area to prevent from serious body injuries, fire and explosion hazards. Do not smoke in the spray area.

Never stock paints and solvents in the spray area. Always close the pots and the tins.

Always keep the spray area clean and free from debris (solvent, rags,...).

Read paint and solvent manufacturer's technical instructions.

Spraying of some materials may result in hazardous working conditions. To protect the operator, respirator mask, hand cream and glasses are required (Refer to chapter "Safety equipment" of KREMLIN selection guide).

■ **EQUIPMENT REQUIREMENTS**

The operating pressure of these equipments are particularly high. Consequently, some precautions must be taken in order to prevent from accidents and from unsafe working conditions :

➔ **Never exceed the components maximum working pressure of the equipment.**

HOSES

Do not use hoses with a maximum burst-proof pressure less than four times the maximum service pressure of the pump (see data sheet).

Be certain hoses are not crimped, leaking and not unrolled.

Be certain hoses are in good conditions and showing no evidence of damage.

➔ **Use only air hose with static conductor to connect the pump with the spray gun.**

All fittings must be tight and in good condition.

PUMP

➔ **Ground the equipment (use the connection on the pump).**

Do not use any product or solvent incompatible with the pump components.

Use the appropriate solvent for the material being sprayed to increase the equipment working life.

GUN

Never wipe the end of the tip with the fingers.

Never point the spray gun at anyone or at any part of the body.

Always depressurize air and hoses before carrying out any servicing on the gun.

HEATER

➡ **Do not install the HP60 / HP61 / BP 60 paint heater in an explosive area. It shall be in a safe area (non explosive area).**

➡ **Ground the equipment (use the connection on the paint heater body).**

Check the voltage indicated on the equipment before plugging it in.

Do not use any product or solvent incompatible with the paint heater components.

Use the appropriate solvent for the material being sprayed to increase the equipment working-life.

The equipment is designed for heating the paint. Let the systems cool before any servicing on the installation.



The heater is fitted with a DANGER label : hot parts or surfaces.



Disconnect the paint heater and let it cool before using flushing solvent or an other cleaning solvent.

▪ MAINTENANCE REQUIREMENTS

➡ **Never modify these equipments.**

Check them daily, keep them in a good conditions and replace the worn parts **only with KREMLIN parts.**

Before cleaning or removing components of the equipment, it is compulsory :

- **to shut off the paint heater,**
- **to stop the pump by shutting off the compressed air supply,**
- **to open the pump drain valve or to press the gun trigger to depressurize the systems.**

▪ ENVIRONMENT

This equipment consists of a label plate with the name of the manufacturer, the equipment part number, the interesting informations to use correctly the equipment (pressure, voltage...) and the above pictogram.



The equipment is designed with and consists of high quality materials and components which can be re-used.

The 2002/96/EC European Directive covers all equipments with a crossed-out bin pictogram. Please inform yourself about the collection systems for electric and electronic equipments.

Please act according to local rules and **do not throw the old equipments with household wastes.** A correct disposal of the old equipment will help prevent negative consequences for the environment and health.



PAINT HEATER
HP 60 / HP 61 / BP60

Disassembly / Reassembly

TRANSLATION OF THE ORIGINAL MANUAL

IMPORTANT : Before assembly and start-up, please read and clearly understand all the documents relating to this equipment (professional use only).

THE PICTURES AND DRAWINGS ARE NON CONTRACTUAL. WE RESERVE THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE.

KREMLIN - REXSON

150, avenue de Stalingrad

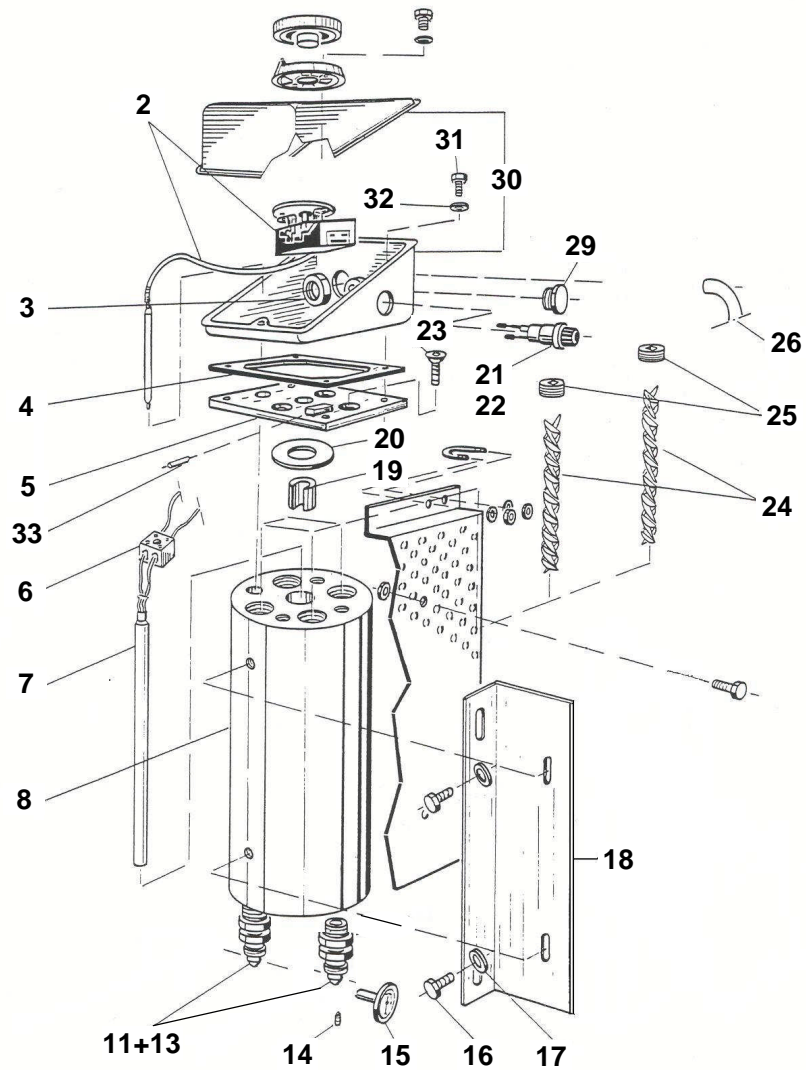
93 245 - STAINS CEDEX – France

☎ : 33 (0)1 49 40 25 25 **Fax** : 33 (0)1 48 26 07 16

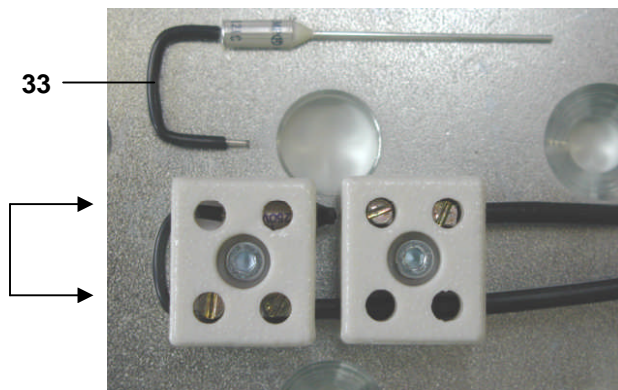
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Before dismantling a component of the heater, unplug the heater and depressurize the fluid circuit.



■ THERMAL FUSE REPLACEMENT (33)



Open the junction box.

The thermal fuse is connected into a connecting block.

Remove the fuse (33), replace it with a new fuse.

Place the lower part of the fuse in the middle of the connecting block.

■ **THERMOSTAT ASSEMBLY (2) OR HEATING RESISTANCE REPLACEMENT (7)**

The thermostat assembly is made up a box placed into the junction box and a sensing element placed into the heater body.

The heating resistance is plunged into the heater body and its connection is in the box.

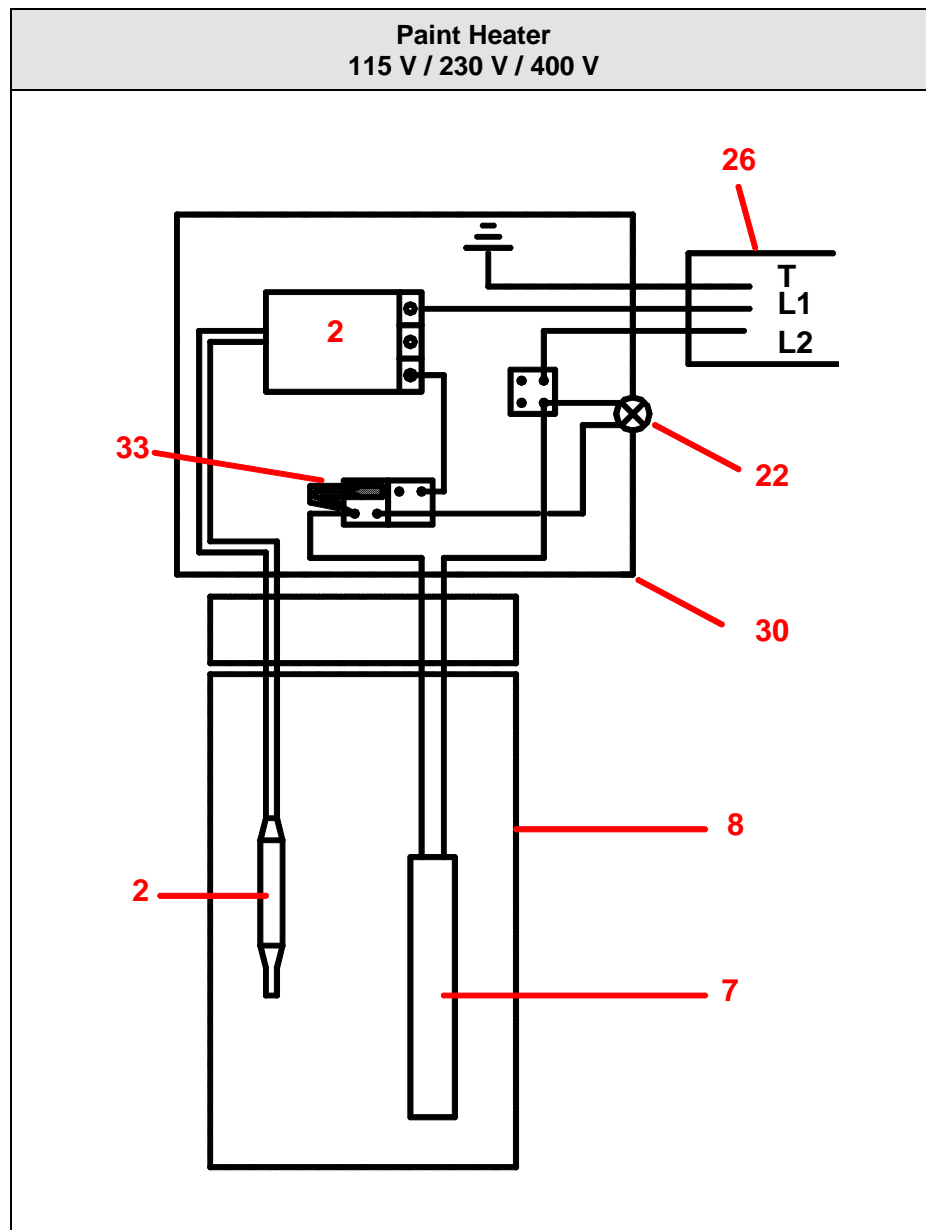
Open the junction box (30) and remove the screws (31) to disassemble the junction box from the heater body.

Remove the junction box (30).

Remove the seal (4), the screws (23), the flange (5). ⇒ *Remove the thermostat sensing element.*

Take off the seal (20) and the spacer (19). ⇒ *Remove the heating resistance.*

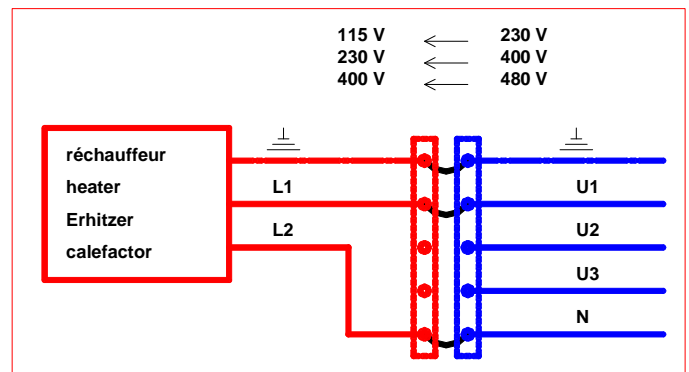
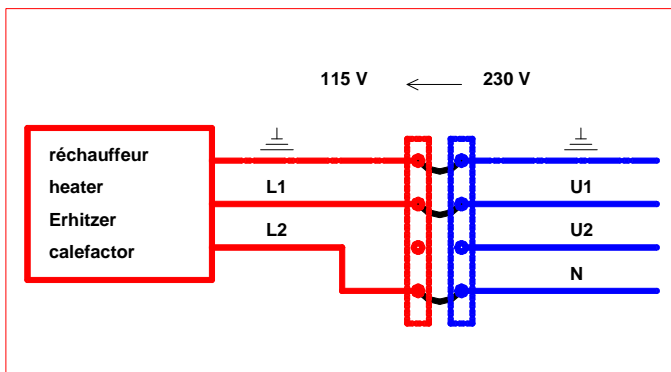
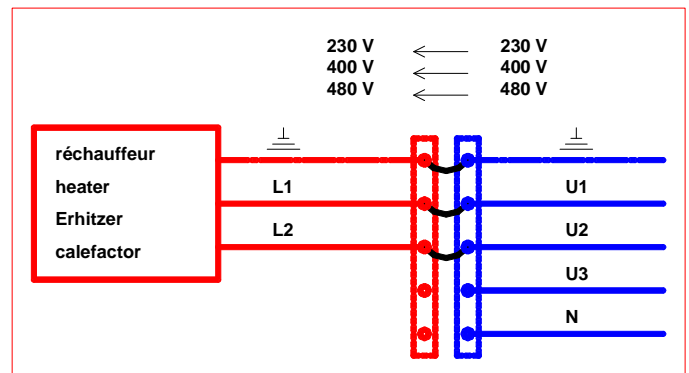
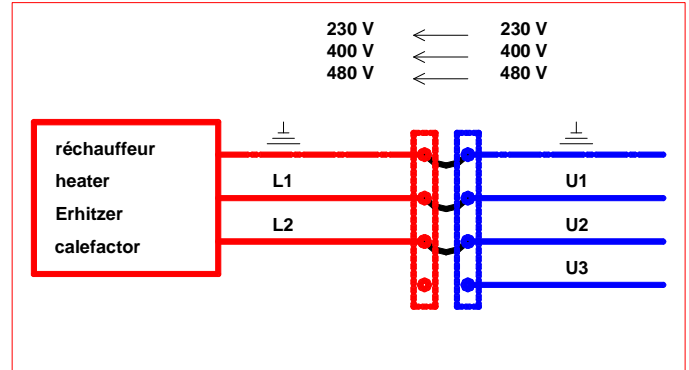
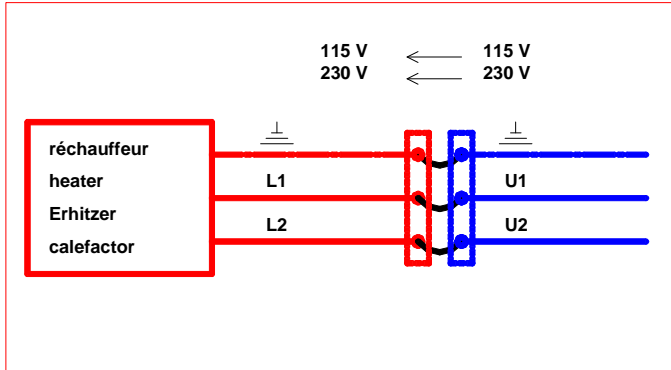
Unplug these elements of the junction box and plug the new parts.



ELECTRICAL CONNECTION



WARNING : Before plugging in the heater, make sure the supply voltage is the same than the one indicated on the apparatus.



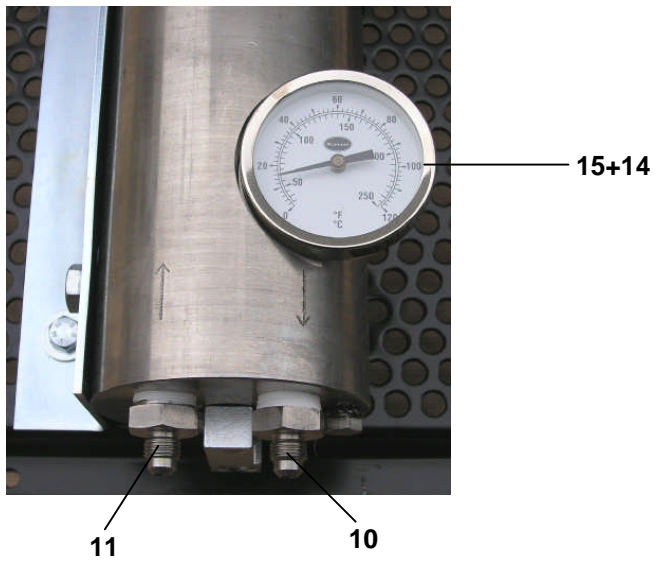
■ REPLACEMENT OF THE MIXERS (24)

- Disassemble the upper part of the heater with the body.
- Unscrew the inlet (11) and the fluid outlet (10) fittings.
- Unscrew the plugs (25) located at each side of the heater body.
- Remove the 8 mixers. Replace them with new ones.
- Remount the parts in the reverse order of the disassembly sequence.

■ **REPLACEMENT OF THE THERMOMETER (15)**

Unscrew the screw (14) and take off the thermometer.

Mount a new thermometer and tighten the screw (14) to fix it into the body.



Doc. 573.156.050

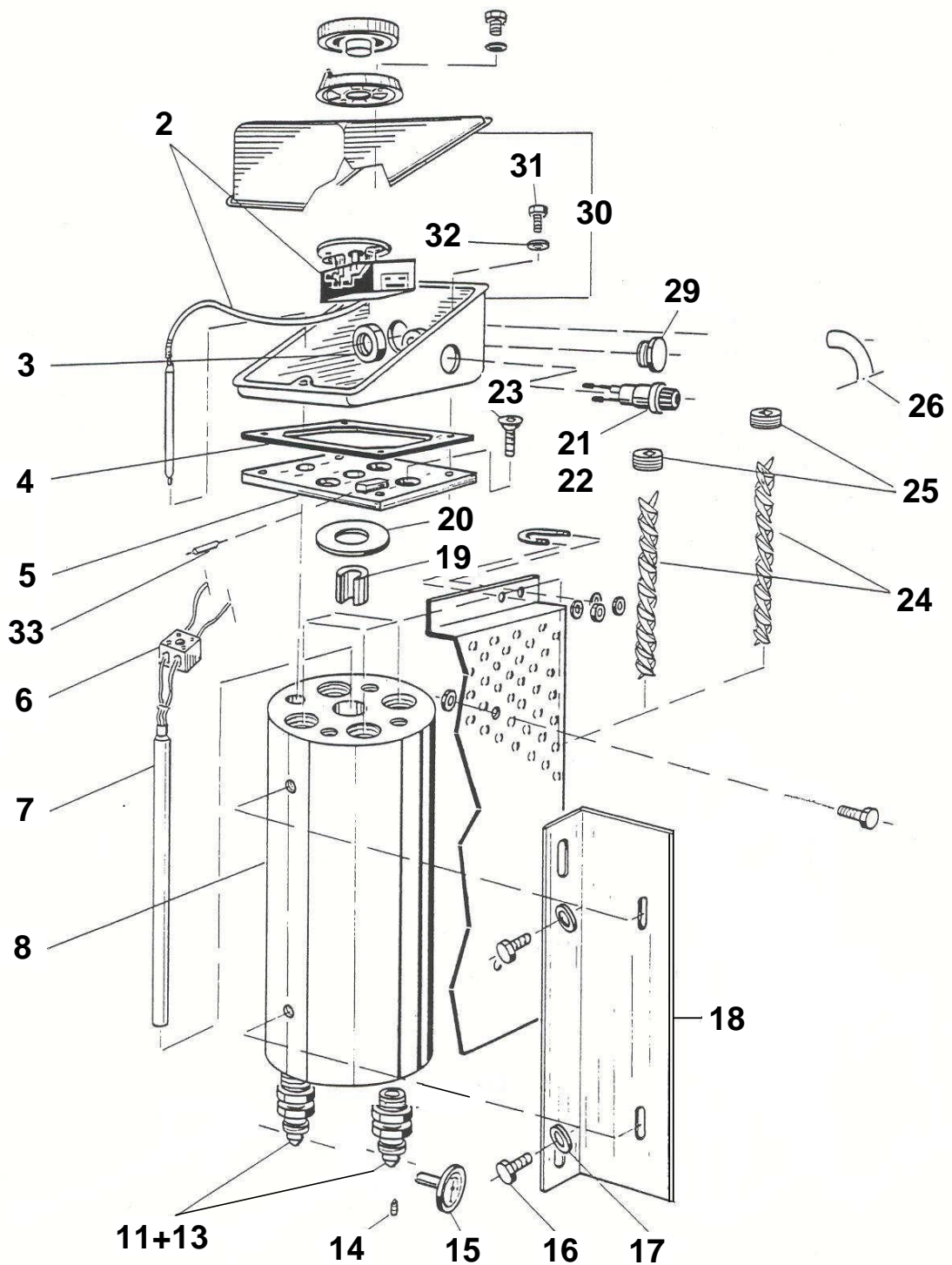
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 Ersetzt/Anula : 03/07/08

Modif. /Änderung : Mise à jour /
 Update / Aktualisierung /
 Actualización

Pièces de rechange
Spare parts list
Ersatzteilliste
Piezas de repuesto

HP 60 / 61	BP 60	RECHAUFFEUR / HEATER / ERHITZER / CALEFACTOR
-------------------	--------------	-----------------------------------------------------



RECHAUFFEUR / HEATER ERHITZER / CALEFACTOR		STANDARD ESTANDARD	INOX / ST.STEEL EDELSTAHL
BP 60	1500 W - 230 V	056.110.100	056.140.100
HP 60	1500 W - 230 V	056.100.700	056.140.700
HP 61	1500 W - 115 V	-	056.140.750
HP 60	1250 W - 400 V	-	056.140.770

Pièces communes - Common parts - Gleiche Teile - Partes comunes

Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
* 2	156.139.901	Ensemble thermostat avec sonde	Thermostat control with sensing element	Thermostat mit Sonde	Conjunto termostato con sonda	1
3	901.202.022	Ecrou pour réducteur	Nut	Mutter	Tuerca para reductor	2
4	909.530.101	Joint pour boîte à bornes	Gasket, junction box	Dichtung	Junta para armario de terminales	1
5	056.130.002	Bride	Mounting plate	Flansch	Brida	1
6	901.204.401	Bloc de jonction	Junction block	Klemmstein	Bloque de unión	1
14	933.171.076	Vis HC M 3 x 5	Screw, HC M 3 x 5	Schraube HC M 3 x 5	Tornillo HC M 3 x 5	1
* 15	910.020.501	Thermomètre	Thermometer	Thermometer	Termómetro	1
16	933.011.281	Vis HM 10 x 20	Screw, HM 10 x 20	Schraube HM 10 x 20	Tornillo HM 10 x 20	2
17	963.040.021	Rondelle MN 10	Washer, MN 10	Scheibe MN 10	Arandela MN 10	4
18	056.135.013	Support de fixation	Bracket, support	Halterung	Soporte de fijación	1
19	056.130.008	Entretoise de calage	Filler block	Führungsbuchse	Galga de espesor	1
20	056.130.003	Joint	Seal	Dichtscheibe	Junta	1
* 21	901.070.401	Voyant	Lamp housing	Lampe	Piloto	1
23	933.221.335	Vis FHc - M 8 x 25	Screw, FHc - M 8 x 25	Schraube FHc - M 8 x 25	Tornillo FHc - M 8 x 25	3
* 24	151.539.902	Mélangeur (pochette de 2)	Mixer element (pack of 2)	Mischereinsatz (Satz mit 2)	Mezclador (bolsa de 2)	4
25	906.314.210	Bouchon 1/2 G	Plug, 1/2 G	Stopfen 1/2 G	Tapón 1/2 G	7
26	527.283.646	Câble (long. 10m ou 5m)	Cable (10m / 16.5 ft or 5m/ 33 ft long)	Kabel (Länge 10 m oder 5 m)	Cable (longitud 10m o 5m)	1
29	901.202.023	Bouchon fileté	Plug	Verschlusskappe	Tapón roscado	1
30	056.130.005	Coffret de branchement	Junction box	Schaltkasten	Armario de conexión	1
31	933.011.143	Vis HM 5 x 10	Screw, HM 5 x 10	Schraube HM 5 x 10	Tornillo HM 5 x 10	4
32	963.210.014	Rondelle WZ 5	Washer, WZ 5	Sicherungsscheibe 5	Arandela WZ 5	4
-	056.100.199	Panneau de fixation	Plate, wall mounting	Wandplatte	Panel de fijación	1

Nota : Pour les références commençant par 5, préciser la longueur à la commande.

Nota : When ordering a spare part whose the first digit is 5, specify the required length.

Hinweis : Bei Artikel-Nummern, die mit einer 5 beginnen, muss die Länge angegeben werden.

Nota : Cuando encarga Vd. una pieza de repuesto que empieza por un 5, precise Vd. la longitud necesaria.

Pièces spécifiques - Specific parts - Spezifische Teile - Partes específicas

-		Version standard	Standard version	Standardversion	Versión estandar	
8	056.130.001	Corps	Body	Körper	Cuerpo	1
11	000.972.028	Raccord M 3/8 NPT - M 1/2 JIC (entrée produit + sortie produit)	Fitting, double male, 3/8 NPT - 1/2 JIC (# 5 JIC) (fluid inlet + fluid outlet)	Doppelnippel AG 3/8 NPT – AG 1/2 JIC (Materialeingang + Materialausgang)	Racor M 3/8 NPT - M 1/2 JIC (entrada producto + salida producto)	2
13	905.160.302	Raccord F 3/8 BSP - M 1/2 BSP	Fitting, F 3/8 BSP - M 1/2 G	Reduzierung IG 1/4" x AG 1/2 "	Racor H 3/8 BSP - M 1/2 BSP	2
* 33	901.200.655	Fusible thermique (142°C)	Fuse (142°C – 287 °F)	Thermische Sicherung (142°C)	Fusible térmico (142°C)	1

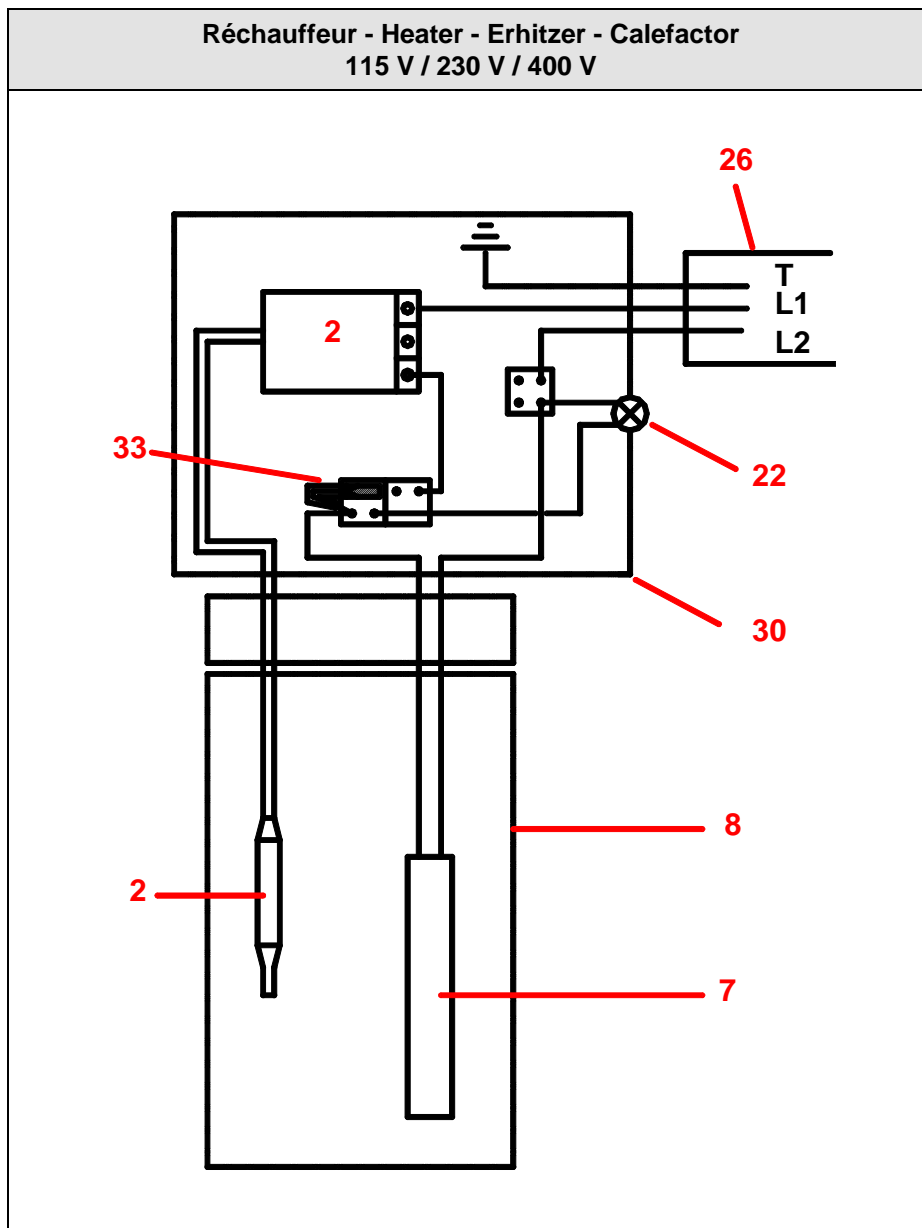
-		Version inox	Stainless steel version	Edelstahlversion	Versión inox	
8	056.144.901	Corps inox	Body, stainless steel	Körper, Edelstahl	Cuerpo inox	1
11 -13	050.102.616	Raccord inox M 1/2 BSP -M 1/2 JIC (entrée produit + sortie produit)	Fitting, stainless steel, double male, 1/2 BSP - 1/2 JIC (# 5 JIC) (fluid inlet + fluid outlet)	Doppelnippel, Edelstahl AG 1/2 " – AG 1/2 JIC (Materialeingang + Materialausgang)	Racor inox M 1/2 BSP - M 1/2 JIC (entrada producto + salida producto)	2
* 33	901.200.659	Fusible thermique (121°C)	Fuse (121°C – 250 °F)	Thermische Sicherung (121°C)	Fusible térmico (121°C)	1

-		Pièces spécifiques suivant les différentes tensions et puissances	Specific parts depending on the different tensions and powers	Spezifische Teile je nach Spannung und Stromstärke	Partes específicas según las diferentes tensiones y potencias	
* 7	901.203.306	Résistance chauffante 1500 W - 230 V	Heater element 1500 W - 230 V	Heizelement 1500 W - 230 V	Resistencia 1500 W - 230 V	1
	901.203.315	Résistance chauffante 1250 W - 400 V	Heater element 1250 W - 400 V	Heizelement 1250 W - 400 V	Resistencia 1250 W - 400 V	1
	901.203.308	Résistance chauffante 1500 W - 115 V	Heater element 1500 W - 115 V	Heizelement 1500 W - 115 V	Resistencia 1500 W - 115 V	1

* 22	156.139.902	Lampe 230 V (pochette de 5)	Lamp, neon, 230 V (pack of 5)	Birne 230 V (Satz mit 5)	Lampara 230 V (bolsa de 5)	1
	901.070.404	Lampe 400 V	Lamp, neon, 400 V	Birne 400 V	Lampara 400 V	1
	901.070.403	Lampe 115 V	Lamp, neon, 115 V	Birne 115 V	Lampara 115 V	1

	056.110.100	Pour réchauffeur BP 60	For heater, model BP 60	Für Erhitzer BP 60	Para calefactor BP 60	
-	050.123.521	Raccord F 1/2 JIC - M 18 x 125	Fitting, F 1/2 JIC - M 18 x 125	Reduziernippel IG 1/2 JIC - M 18 x 1,25	Racor H 1/2 JIC - M 18 x 125	2

Réchauffeur - Heater - Erhitzer - Calefactor
115 V / 230 V / 400 V



**RACCORDEMENT ELECTRIQUE – ELECTRICAL CONNECTION –
ELEKTRISCHER ANSCHLUSS – CONEXIÓN ELECTRICA**

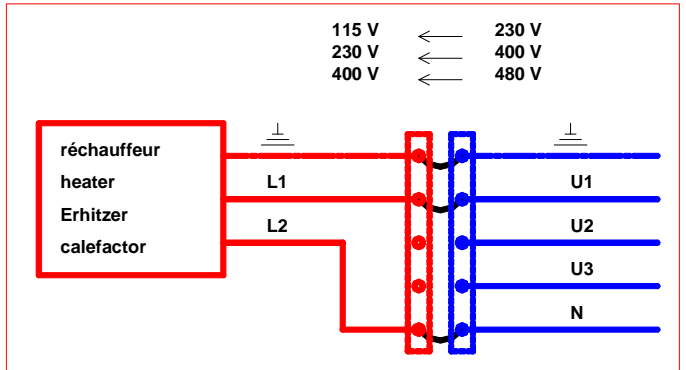
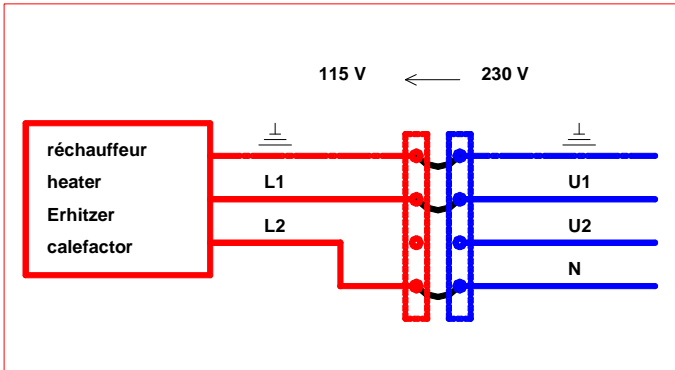
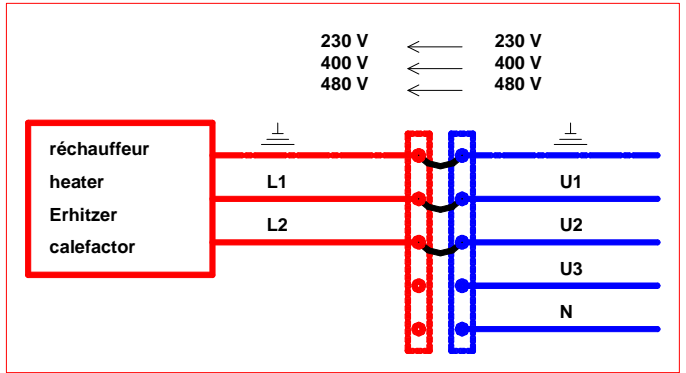
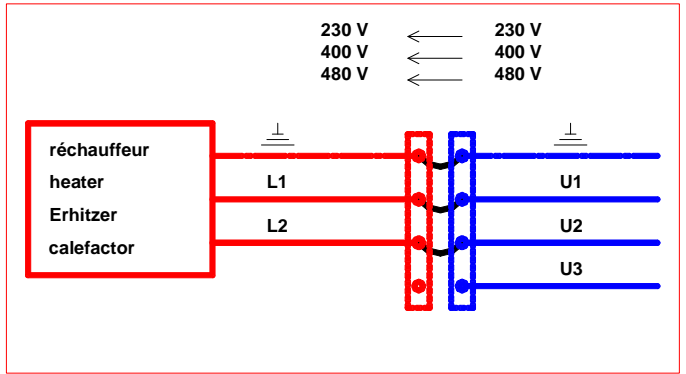
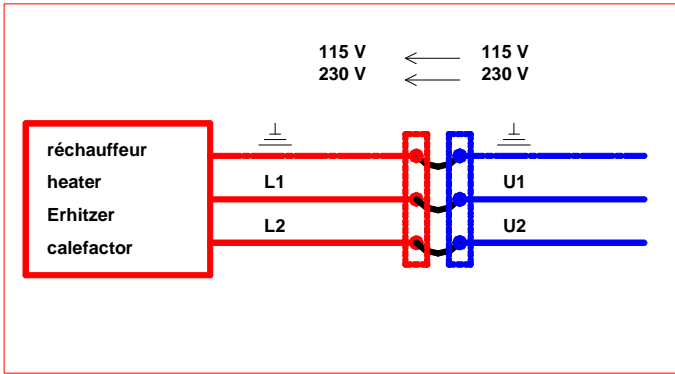


ATTENTION : Avant de brancher le réchauffeur, assurez-vous que la tension d'alimentation soit bien identique à la tension indiquée sur l'appareil.

WARNING : Before plugging in the heater, make sure the supply voltage is the same than the one indicated on the apparatus.

VORSICHT : Bitte überprüfen Sie vor Inbetriebnahme, dass die Spannung mit der auf dem Erhitzer angegebenen übereinstimmt.

OJO : Antes de conectar eléctricamente el calefactor, compuebe que la tensión de alimentación sea idéntica a la tensión indicada en el aparato.





PAINT HEATER

Troubleshooting

TRANSLATION OF THE ORIGINAL MANUAL

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CAUTION :

Before any action on the paint heater, unplug the heater and depressurize the fluid circuit.

DEFECT	CAUSE	SOLUTION
The light goes out	Electric supply	Check the voltage indicated on the heater and the mains voltage. Check or change the thermal fuse. Check or change the thermostat.
Fluid at the heater outlet too cool	Heating time too short	Wait the fluid temperature ascent time.
	Bad adjustment of the temperature	Turn the adjustment knob to raise the temperature.
	Mixers clogged up	Remove the heater and change the mixers.
	Fluid flow into the circuit too important	Decrease the pump flow or install two heaters.
Fluid at the heater outlet too hot	Bad adjustment of the temperature	Turn the adjustment knob to decrease the temperature.
	Faulty thermostat	Check the thermostat replace it if necessary.
When working, pressure decrease at the gun	Mixers clogged up	Dismount the heater and change the mixers.



PAINT HEATER

OPERATING

TRANSLATION OF THE ORIGINAL MANUAL

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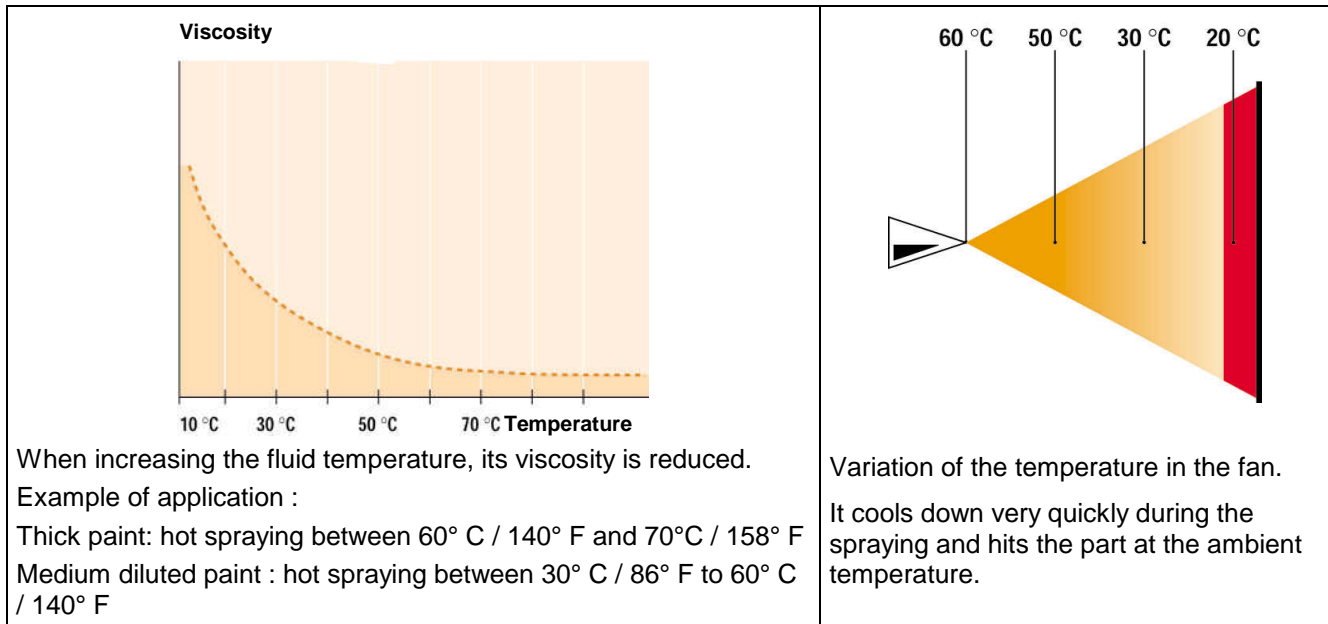
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1. HOT SPRAYING PRINCIPLE

The heater is mounted on paint spray installations between the pump fluid outlet and the gun fluid inlet. A heated system improves finish quality (reduction of fluid viscosity) by increasing fluid temperature.



2. START-UP AND SHUTDOWN

■ BEFORE STARTING UP

Install a plug and a cable end (2 terminals + earth).

Ground the pump and the paint heater.

Check the mains voltage and the one indicated on the heater (115V, 230V or 400V single-phase).

Install an hose upstream and an other one downstream of the heater (Choose the hose according to the pressure supplied by the pump and to the regulating temperature).

When you install a Y-fitting at gun level and a non-return regulator or a regulation valve on the fluid return, you make the fluid circulate.

Nota : choose a circulation valve if the temperature exceeds 50°C / 117°F; choose a non-return regulator for lower temperatures.

■ START UP

Switch on the pump. Make the fluid circulate into the circuit at low pressure.

Plug in the heater intake. The light that comes on indicates the switching on the equipment.

Program the temperature turning the knob located on the upper part of the heater. The temperature will be read on the thermometer located at the heater body.

Wait a few minutes for the stabilization of the temperature.

Nota : A gap must exist between the value of the temperature read on the thermal indicator and the real temperature of the paint.

Adjust the pump pressure and the return circuit pressure : the circulation must not be too important.

Adjust the fluid temperature.

Nota : The fluid output must not be too important to get a correct regulation of the temperature.



Do not overheat the paints. Comply with the features of the materials.

Never shift the cursor beyond the STOP indication : the thermal fuse will be damaged.

▪ **SHUTDOWN**

Short duration shutdown :



During the shutdown, the fluid temperature inside the heater will normally increase. Consequently, check that the temperature is not upper than the limit given by the manufacturer. If the temperature is upper than the limit, turn the heater knob to get the minimum temperature.

Keep the fluid circulating and reduce the pressures.

Long duration shutdown :

Turn the heater knob to the minimum temperature.

Stop the pump and unplug the heater.

When the heater is **cool**, change the fluid with the appropriate cleaning solvent.

Pressurize once more the pump. Trigger the gun until solvent goes out clean.

Shut off the pressure and leave the installation fill with solvent. That operation is important because the mixers that become clogged up can be cleaned and create a pressure-drop in the installation.



PAINT HEATER

HP 60 / HP 61 / BP60

TECHNICAL FEATURES

TRANSLATION OF THE ORIGINAL MANUAL

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1. DESCRIPTION

The HP 60 / HP 61 / BP 60 heater is mounted on paint spray installations between the pump fluid outlet and the gun fluid inlet. A heated system improves finish quality (reduction of fluid viscosity) by increasing fluid temperature.

There are an aluminium version and a stainless steel version. In each version, there are different models according to the voltage, the power.

It is recommended for AIRMIX® or AIRLESS conventional spraying.

The heater has an excellent energy efficiency. The access to the heater components and servicing are easy.

The circuits are designed to prevent paint heater from overheating.

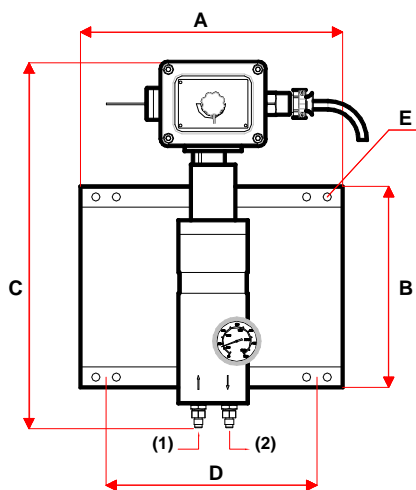
A thermal fuse, fitting the heater, will instantly melt if the temperature becomes excessive following a fault in the thermostat, for example. You can easily change the fuse.

2. TECHNICAL FEATURES

Heater	Type	Single-phase voltage (V)	Power (W)	Cable length without plug	Inlet fitting	Outlet fitting
aluminium version	HP 60	230	1500	10 m / 32 ft	M 1/2 JIC / # 5 JIC	M 1/2 JIC / # 5 JIC
	BP 60	230	1500	10 m / 32 ft	M 18 x 125	M 18 x 125
	HP 61	115	1500	5 m / 16 ft	M 1/2 JIC / # 5 JIC	M 1/2 JIC / # 5 JIC
	HP 60	230	3000	10 m / 32 ft	M 1/2 JIC / # 5 JIC	M 1/2 JIC / # 5 JIC
stainless steel version	HP 60	230	1500	10 m / 32 ft	M 1/2 JIC / # 5 JIC	M 1/2 JIC / # 5 JIC
	BP 60	230	1500	10 m / 32 ft	M 18 x 125	M 18 x 125
	HP 61	115	1500	5 m / 16 ft	M 1/2 JIC / # 5 JIC	M 1/2 JIC / # 5 JIC
	HP 60	400	1250	5 m / 16 ft	M 1/2 JIC / # 5 JIC	M 1/2 JIC / # 5 JIC

	ALUMINIUM HEATER	STAINLESS STEEL HEATER
Thermostat version	Expansion of liquid and dry extract	
Thermal fuse	Cutting of 140°C / 284°F	Cutting of 121°C / 250°F
Thermometer	Graduation : from 0 to 100°C / from 32°F to 212°F	
Temperature range	15 - 90°C / 59 - 194°F	
Maximum operating pressure	250 bar / 3626 psi	
Weight (kg / lbs) :	12 kg / 26.5 lbs	23 kg / 50.7 lbs
Wetted parts in contact with the material	Aluminium body Chrome galvanized steel fittings	Stainless body Stainless steel fittings
Work ambient temperature	40°C / 104°F max	

■ DIMENSIONS



Heater on wall-mounted unit

Dimensions (mm / ")

A - 360 / 14.2

B - 305 / 12

C - 390 / 15.3

D - 252 / 10

E - \varnothing 10 / 3/8

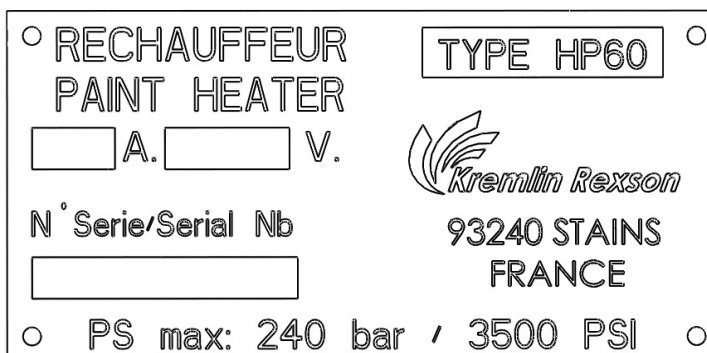
(1) - fluid inlet

(2) - fluid outlet

3. INSTALLATION

■ DESCRIPTION OF THE LABEL MARKING

Marking in accordance with the ATEX directive
(example : Paint Heater HP 60)



KREMLIN REXSON logo	Manufacturer label
KREMLIN REXSON 93 240 Stains FRANCE	Name and address of the manufacturer.
RECHAUFFEUR / PAINT HEATER TYPE HP60	Type
A. - V.	Intensity and voltage
PS max : 240 bar / 3500 PSI	Maximum fluid pressure
N° série / Serial Nb	Number given by KREMLIN REXSON. The two first numbers indicate the manufacturing years.

■ INSTALLATION INSTRUCTIONS



The HP 60 / HP 61 / BP 60 heaters shall be installed outside the explosive area.

