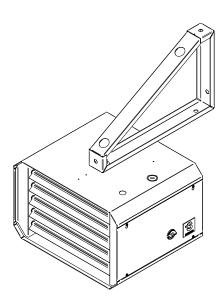
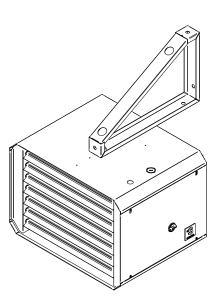


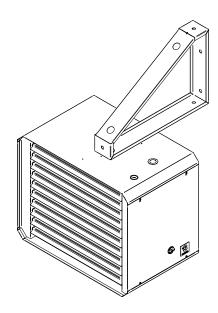
USER'S GUIDE

SHU SERIES COMMERCIAL INDUSTRIAL UNIT HEATER

REPLACEMENT COMPONENT LIST INCLUDED











A WARNING

Before installing and operating this product, the user and/or installer must read, understand and follow these instructions and keep them handy for future reference. If these instructions are not followed, the warranty will be considered null and void and the manufacturer deems no further responsibility for this product.

This product must be installed by a qualified person and connected by a **certified electrician**, according to the **electrical and building codes** effective in your region.

The following instructions must be adhered to in order to avoid personal injuries or property damages, serious injuries and potentially fatal electric shocks.

Make sure that all screws and electrical terminal connections are tightly secured before operating the unit in case they would have loosened during transportation.

Protect the heating unit with the appropriate circuit breaker or fuse, in accordance with the nameplate.

Make sure the line voltage (volt) is consistent with that indicated on the unit's nameplate.

This unit must be **grounded**.

Switch off the power at the circuit breaker/fuse before installing, repairing and cleaning the unit.

Make sure the unit is appropriate for the intended use (if needed, refer to the product catalog or a representative).

RECOMMENDED HEATING CAPACITY:

1.25 W/cubic foot (0.03 m³).

It corresponds to **10 W/square foot (0.09 m²)** based on a standard ceiling height of 8 feet (2.44 m). The recommended capacity is usually sufficient for normal heating needs. Please note that the insulation quality of walls and windows are some of the factors that influence heat losses, which modify the required capacity to heat a room. If needed, refer to a specialist (industrial and commercial buildings) who will be able to calculate these heat losses and optimize the required capacity or consult the "Online heating calculation" section of the Stelpro Design Web site (residential buildings). To heat a large room and to increase your comfort, it is recommended to install several units instead of one. For example, 2 X 1000 W rather than 1 X 2000 W.



If the unit capacity is insufficient for the size of the room, it will be in operation continuously, and may become defective earlier and turn yellow.

Do not install the unit where objects or pieces of furniture could be heat damaged.

Respect distances and positions indicated in the installation section.

If the installer or the user modifies the unit, he will be held responsible for any damage resulting from this modification, and the CSA certification could be void.

This unit must not come into contact with a water source and must be protected from splashes. Do not use it if any part has been immersed. Moreover, do not turn it on or off when standing in water or if your hands are wet.

When mounting the unit, make sure that the anchorage used can support the total weight of the unit with the mounting brackets.

When cutting or drilling into a wall or a ceiling, do not damage electrical wiring and other hidden utilities.

Do not install this product on walls made of synthetic material such as, but not limited to, carpet and wallpaper.

When starting up the unit for the first time or after a long period, it is normal that it produces some temporary odours and whitish smoke.

Because this unit is hot when in use, it may pose risks even in normal operation. Therefore, be **careful** and **responsible** when using it. To avoid burns, do not let bare skin touch hot surfaces. The unit must cool down for few minutes since it will stay warm for some time after shut down.

This unit must be installed at least 6 or 12 in. (15 or 30 cm) from any adjacent surfaces (walls) (according to the unit capacity; see the installation section). However, make sure flammable materials do not come into contact with the unit and keep them at least 24 inches (61 cm) from the unit since they are more flammable than walls. Failure to comply with this warning could lead to a fire. Some materials are more heat-sensitive than others, so make sure those near the unit can withstand heat.

Never block unit air vents. This obstruction could lead to overheating, which could result in a fire.

Do not insert or allow foreign objects to enter any air vent as this may cause electric shocks, fires, or damages to the unit.

This unit has hot and arcing or sparking parts inside. It is not designed to be used or stored in wet areas or areas containing flammable liquids, combustible materials or corrosive, abrasive, chemical, explosive and flammable substances such as, but not limited to, gasoline, paint, chlorine, sawdust and cleaning products.

Some areas are dustier than others. Thus, it is the user's responsibility to evaluate if the unit **must be cleaned** based on the amount of dirt accumulated on and inside air vents. Accumulated dirt can lead to a component malfunction or discoloration (yellow). It may cause a fire hazard if not installed and maintained in accordance with these instructions

The thermal protection activation indicates that the unit has been subjected to abnormal operating conditions. If the thermal protection remains activated or activates and deactivates repeatedly, it is recommended that a qualified electrician or a certified repair centre examine the unit in order to make sure it is not damaged. (Refer to the limited warranty).

If the unit is damaged or defective, cut off power supply at circuit breaker/fuse and call a certified repair centre. (Refer to the limited warranty).

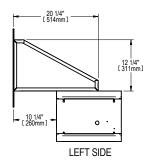
Note: When a part of the product specification must be changed to improve operability or other functions, priority is given to the product specification itself. In such instances, the instruction manual may not entirely match all the functions of the actual product. Therefore, the actual product and packaging, as well as the name and illustration, may differ from the manual.

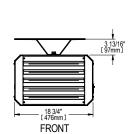
SPECIFICATIONS

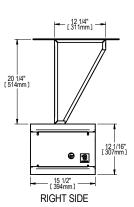
COMMERCIAL INDUSTRIAL UNIT HEATER – SHU			
WATTS	2 TO 10 kW	15 TO 30 kW	40 TO 60 kW
WEIGHT	32 LB / 15 KG	60 LB / 27 KG	95 LB / 44 KG
LENGTH	15" / 394 MM	17 5/8" / 448 MM	17 3/4" / 451 MM
WIDTH	18 3/4" / 476 MM	22 7/8" / 581 MM	27 1/2" / 698 MM
HEIGHT	12" / 305 MM	16" / 405 MM	22 1/4" / 565 MM

TECHNICAL DRAWINGS

2 TO 10 kW

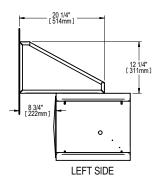


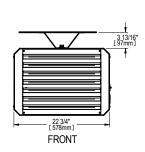


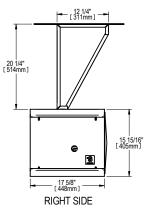


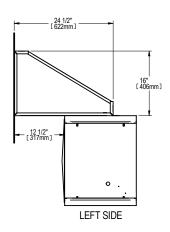
TECHNICAL DRAWINGS

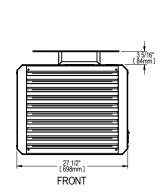
15 TO 30 kW

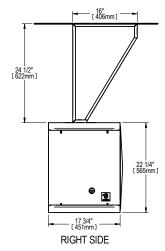












40 TO 60 kW

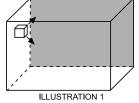
INSTALLATION /

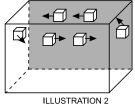
N.B. Cut off power supply at circuit breaker/fuse before proceeding to the installation.

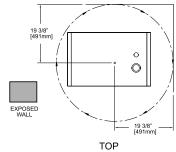
For best results, the following distances shall be respected when installing these unit heaters.

	MAXIMUM HEIGHT FROM THE FLOOR	MINIMUM DISTANCE FROM THE FLOOR	MINIMUM DISTANCE FROM THE WALL
2-10 KW MODELS	8 FT (2.4 M)	2 FT (0.6 M)	6 IN. (15 CM)
15-30 KW MODELS	10 FT (3.0 M)	2 FT (0.6 M)	6 IN. (15 CM)
40-60 KW MODELS	15 FT (4.6 M)	6 FT (1.8 M)	12 IN. (30 CM)

- 1. Avoid directing the airflow from the unit heater towards occupants of the room, beams, poles, machinery and/or against the walls. Instead, try to direct it along the walls, preferably an exterior wall exposed to the wind.
- When using a wall-mounted thermostat, install it on an interior wall or beam, away from cold airflow, other internal heat sources or the hot air discharge coming directly from the unit heater itself. Make sure to insulate the thermostat when installed on a steel beam.
- 3. Smaller rooms will generally require one unit heater only. For larger rooms, install several unit heaters in such a way that will promote a peripheral air circulation, as demonstrated on illustrations 1 and 2.



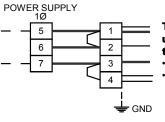




POWER SUPPLY 3Ø 1 2 2 3 4

Default configuration for 3 / 1 phase unit

• Unit in 3 phases by default



To transform the unit in 1 phase unit remove jumper between terminal #2 and #4

- Put a jumper between terminal #1 and #2
- Put a jumper between terminal #3 and #4

MAINTENANCE /

N.B. In order for the warranty to be valid, the unit must be cleaned regularly.

If the heater operates under normal conditions, it is not necessary to lubricate the motor since it has been permanently lubricated.

Cut off power supply at circuit breaker/fuse before cleaning the unit. Use a soft rag for dusting. When cleaning, use only a damp rag and non-abrasive dish soap. Do not use abrasive or chemical cleaners because they may damage the finishing. If the unit is used in a very dusty location, use a vacuum brush to remove dust and other foreign objects from the grilles. Note that cigarette smoke could yellow the discharge grille and that the best way to prevent it is to clean the unit on a regular basis.

Do not use cleaning products identified with these symbols:







N.B. Note that there is electrical current linked to the unit even if the thermostat is set off. This means that there is a risk of electric shock as long as the unit is energized.

OPERATION

Built-in thermostat: temperature setting ranges from 10°C to 32°C (50°F to 90°F).

REPLACEMENT COMPONENT LIST

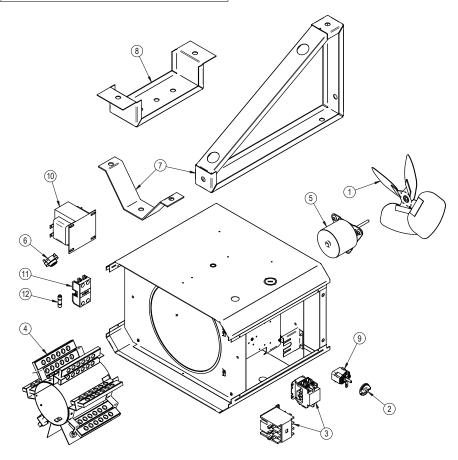
REF.#	PART #	DESCRIPTION
1	BLA-008	BLADE 10" 20° 5B (2-5 KW)
1	BLA-010	BLADE 10" 32° 4B (7,5-10 KW)
1	BLA-011	BLADE 14" 32° 4B (15-25 KW)
1	BLA-012	BLADE 14" 40° 4B (30 KW)
1	BLA-013	BLADE 18" 32° 4B (40-60 KW)
2	BOUT-008	THERMOSTAT KNOB (BLACK)
3	CONT-3002	CONTACTOR 30 A 2 POLES 24 V
3	CONT-3022	CONTACTOR 30 A 2 POLES 240-208 V
3	CONT-3503	CONTACTOR 35 A 3 POLES 24 V
3	CONT-3512	CONTACTOR 35 A 2 POLES 120 V
3	CONT-4013	CONTACTOR 40 A 3 POLES 120 V
3	CONT-4023	CONTACTOR 40 A 3 POLES 240-208 V
4	ELF-SHU1021	ELEMENT (KIT) 10 KW 240 V 1 PH
4	ELF-SHU1023	ELEMENT (KIT) 10 KW 240 V 3 PH
4	ELF-SHU1031	ELEMENT (KIT) 10 KW 347 V 1 PH
4	ELF-SHU1051	ELEMENT (KIT) 10 KW 480W 1 PH
4	ELF-SHU1053	ELEMENT (KIT) 10 KW 480 V 3 PH
4	ELF-SHU1061	ELEMENT (KIT) 10 KW 600 V 1 PH
4	ELF-SHU1063	ELEMENT (KIT) 10 KW 600 V 3 PH
4	ELF-SHU1081	ELEMENT (KIT) 10 KW 208 V 1 PH
4	ELF-SHU1083	ELEMENT (KIT) 10 KW 208 V 3 PH
4	ELF-SHU1521	ELEMENT (KIT) 15 KW 240 V 1 PH
4	ELF-SHU1523	ELEMENT (KIT) 15 KW 240 V 3 PH
4	ELF-SHU1531	ELEMENT (KIT) 15 KW 347 V 1 PH
4	ELF-SHU1551	ELEMENT (KIT) 15 KW 480 V 1 PH
4	ELF-SHU1553	ELEMENT (KIT) 15 KW 480 V 3 PH
4	ELF-SHU1561	ELEMENT (KIT) 15 KW 600 V 1 PH
4	ELF-SHU1563	ELEMENT (KIT) 15 KW 600 V 3 PH
4	ELF-SHU1581	ELEMENT (KIT) 15 KW 208 V 1 PH
4	ELF-SHU1583	ELEMENT (KIT) 15 KW 208 V 3 PH
4	ELF-SHU2021	ELEMENT (KIT) 20 KW 240 V 1 PH
4	ELF-SHU2031	ELEMENT (KIT) 20 KW 347 V 1 PH
4	ELF-SHU2051	ELEMENT (KIT) 20 KW 480 V 1 PH
4	ELF-SHU2053	ELEMENT (KIT) 20 KW 480 V 3 PH
4	ELF-SHU2061	ELEMENT (KIT) 20 KW 600 V 1 PH
4	ELF-SHU2063	ELEMENT (KIT) 20 KW 600 V 3 PH
4	ELF-SHU2081	ELEMENT (KIT) 20 KW 208 V 1 PH
4	ELF-SHU2083	ELEMENT (KIT) 20 KW 208 V 3 PH
4	ELF-SHU221	ELEMENT (KIT) 2 KW 240 V 1 PH
4	ELF-SHU223	ELEMENT (KIT) 2 KW 240 V 3 PH
4	ELF-SHU231	ELEMENT (KIT) 2 KW 347 V 1 PH
4	ELF-SHU251	ELEMENT (KIT) 2 KW 480 V 1 PH
4	ELF-SHU253	ELEMENT (KIT) 2 KW 480 V 3 PH
4	ELF-SHU2531	ELEMENT (KIT) 25 KW 347 V 1 PH

REF.#	PART #	DESCRIPTION
4	ELF-SHU2551	ELEMENT (KIT) 25 KW 480 V 1 PH
4	ELF-SHU2553	ELEMENT (KIT) 25 KW 480 V 3 PH
4	ELF-SHU2561	ELEMENT (KIT) 25 KW 600 V 1 PH
4	ELF-SHU2563	ELEMENT (KIT) 25 KW 600 V 3 PH
4	ELF-SHU2581	ELEMENT (KIT) 25 KW 208 V 1 PH
4	ELF-SHU2583	ELEMENT (KIT) 25 KW 208 V 3 PH
4	ELF-SHU261	ELEMENT (KIT) 2 KW 600 V 1 PH
4	ELF-SHU263	ELEMENT (KIT) 2 KW 600 V 3 PH
4	ELF-SHU281	ELEMENT (KIT) 2 KW 208 V 1 PH
4	ELF-SHU283	ELEMENT (KIT) 2 KW 208 V 3 PH
4	ELF-SHU3053	ELEMENT (KIT) 30 KW 480 V 3 PH
4	ELF-SHU3063	ELEMENT (KIT) 30 KW 600 V 3 PH
4	ELF-SHU3083	ELEMENT (KIT) 30 KW 208 V 3 PH
4	ELF-SHU321	ELEMENT (KIT) 3 KW 240 V 1 PH
4	ELF-SHU323	ELEMENT (KIT) 3 KW 240 V 3 PH
4	ELF-SHU331	ELEMENT (KIT) 3 KW 347 V 1 PH
4	ELF-SHU351	ELEMENT (KIT) 3 KW 480 V 1 PH
4	ELF-SHU353	ELEMENT (KIT) 3 KW 480 V 3 PH
4	ELF-SHU361	ELEMENT (KIT) 3 KW 600 V 1 PH
4	ELF-SHU363	ELEMENT (KIT) 3 KW 600 V 3 PH
4	ELF-SHU371	ELEMENT (KIT) 3 KW 277 V 1 PH
4	ELF-SHU381	ELEMENT (KIT) 3 KW 208 V 1 PH
4	ELF-SHU383	ELEMENT (KIT) 3 KW 208 V 3 PH
4	ELF-SHU421	ELEMENT (KIT) 4 KW 240 V 1 PH
4	ELF-SHU423	ELEMENT (KIT) 4 KW 240 V 3 PH
4	ELF-SHU431	ELEMENT (KIT) 4 KW 347 V 1 PH
4	ELF-SHU451	ELEMENT (KIT) 4 KW 480 V 1 PH
4	ELF-SHU453	ELEMENT (KIT) 4 KW 480 V 3 PH
4	ELF-SHU461	ELEMENT (KIT) 4 KW 600 V 1 PH
4	ELF-SHU463	ELEMENT (KIT) 4 KW 600 V 3 PH
4	ELF-SHU471	ELEMENT (KIT) 4 KW 277 V 1 PH
4	ELF-SHU481	ELEMENT (KIT) 4 KW 208 V 1 PH
4	ELF-SHU483	ELEMENT (KIT) 4 KW 208 V 3 PH
4	ELF-SHU521	ELEMENT (KIT) 5 KW 240 V 1 PH
4	ELF-SHU523	ELEMENT (KIT) 5 KW 240 V 3 PH
4	ELF-SHU531	ELEMENT (KIT) 5 KW 347 V 1 PH
4	ELF-SHU551	ELEMENT (KIT) 5 KW 480 V 1 PH
4	ELF-SHU553	ELEMENT (KIT) 5 KW 480 V 3 PH
4	ELF-SHU561	ELEMENT (KIT) 5 KW 600 V 1 PH
4	ELF-SHU563	ELEMENT (KIT) 5 KW 600 V 3 PH
4	ELF-SHU571	ELEMENT (KIT) 5 KW 277 V 1 PH
4	ELF-SHU581	ELEMENT (KIT) 5 KW 208 V 1 PH
4	ELF-SHU583	ELEMENT (KIT) 5 KW 208 V 3 PH
4	ELF-SHU721	ELEMENT (KIT) 7,5 KW 240 V 1 PH

REPLACEMENT COMPONENT LIST

0 KW
0 KW
KW
4

REF.#	PART #	DESCRIPTION
10	TRF500025D	TRANSFORMER 240-480/120-240/100 VA
10	TRF510100D	TRANSFORMER 480/240/25 VA
10	TRF520025	TRANSFORMER 208-240/24/40VA, CL.2 CL.B
10	TRF520200D	TRANSFORMER 240-480/120-240/200 VA
10	TRF520500D	TRANSFORMER 240-480/120-240/500 VA
10	TRF600025	TRANSFORMER 600/24/25 VA
10	TRF600100	TRANSFORMER 600/12-24/100 VA
10	TRF610025D	TRANSFORMER 480-600/120-240/25 VA
10	TRF620025	TRANSFORMER 600/240/25 VA
10	TRF620100	TRANSFORMER 600/240/100 VA
10	TRF620200	TRANSFORMER 600/240/200 VA
10	TRF620500	TRANSFORMER 600/240/500 VA
10	TRF720250	TRANSFORMER 277/240/250 VA
10	TRF810025D	TRANSFORMER 208-416/120-240/25 VA
10	TRF810350D	TRANSFORMER 208-416/120-240/350 VA
11	HOLD-005	FUSE HOLDER 2 POLES 600V
11	HOLD-009	FUSE HOLDER 1 POLE 600 V
11	HOLD-010	FUSE HOLDER 2 POLES 600 V
11	HOLD-011	FUSE HOLDER 3 POLES 600 V
12	FS-005	FUSE 15A CLASS CC 600V T.D.
12	FS-016	FUSE 40A CLASS J 600V T.D.
12	FS-017	FUSE 50A CLASS J 600V T.D.
12	FS-018	FUSE 60A CLASS J 600V T.D.
12	FS-023	FUSE 20A CLASS CC 600V T.D.
12	FS-024	FUSE 25A CLASS CC 600V T.D.
12	FS-025	FUSE 30A CLASS CC 600V T.D.
12	FS-026	FUSE 35A CLASS J 600V T.D.
12	FS-027	FUSE 45A CLASS J 600V T.D.



PROBLEM	DEFECTIVE PART OR PART TO CHECK
The unit does not work	 Defective thermostat or wrong thermostat setting Open circuit breaker or fuse The thermal protection has been activated Faulty connections
The unit runs continuously	Defective thermostat or wrong thermostat setting Heat losses higher than the unit capacity
The enclosure is extremely hot	Defective thermal protection Blocked air vents Defective motor
The unit cycles under control of the thermal protection (overheat indicator)	Blocked air vents Defective motor
Overheating	Defective thermostat or wrong thermostat setting Defective motor
The breaker trips when the heater is turned on	Faulty connections Voltage higher than that written on the nameplate
Elements are on, but the motor does not work	Defective motor
The desired room temperature cannot be reached	One or more elements are defective Defective thermostat or wrong thermostat setting Voltage lower than that written on the nameplate Heat losses higher than the unit capacity

TED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANT

LIMITED WARRANTY

This limited warranty is offered by Stelpro Design inc. ("Stelpro") and applies to the following product made by Stelpro: model SHU. **Please read this limited warranty carefully. Subject to the terms of this warranty**, Stelpro warrants its products and their components against defects in workmanship and/or materials for the following periods from the date of purchase: **3 years**. This warranty applies only to the original purchaser; it is non-transferable and cannot be extended.

CLAIM PROCEDURE

If at any time during the warranty period the unit becomes defective, you must cut off the power supply at the main electrical panel and contact 1) your installer or distributor, 2) your service center or 3) Stelpro's customer service department. In all cases, you must have a **copy of the invoice** and provide the **information written on the product nameplate**. Stelpro reserves the right to examine or to ask one of its representatives to examine the product itself or any part of it before honoring the warranty. Stelpro reserves the right to replace the entire unit, refund its purchase price or repair a defective part. Please note that repairs made within the warranty period must be authorized in advance in writing by Stelpro and carried out by persons authorized by Stelpro.

Before returning a product to Stelpro, you must have a Stelpro authorization number (RMA). To obtain it, call the customer service department at: **1-844-STELPRO**. The authorization number must be clearly written on the parcel or it will be refused.

CONDITIONS, EXCLUSIONS AND DISCLAIMER OF LIABILITY

This warranty is exclusive and in lieu of all other representations and warranties (except of title), expressed or implied, and Stelpro expressly disclaims and excludes any implied warranty of merchantability or implied warranty of fitness for a particular purpose.

Stelpro's liability with respect to products is limited as provided above. Stelpro shall not be subject to any other obligations or liabilities whatsoever, whether based on contract, tort or other theories of law, with respect to goods or services furnished by it, or any undertakings, acts or omissions relating thereto. Without limiting the generality of the foregoing, Stelpro expressly disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, shutdowns, slowdowns, or for other types of economic loss or for claims of a dealer's customers or any third party for such damages. Stelpro specifically disclaims all consequential, incidental and contingent damages whatsoever.

This warranty does not cover any damages or failures resulting from: 1) a faulty installation or improper storage; 2) an abusive or abnormal use, lack of maintenance, improper maintenance (other than that prescribed by Stelpro) or a use other than that for which the unit was designed; 3) a natural disaster or an event out of Stelpro's control, including, but not limited to, hurricanes, tornadoes, earthquakes, terrorist attacks, wars, over voltage, flooding, water damages, etc. This warranty does not cover any accidental or intentional losses or damages nor does it cover damages caused by negligence of the user or owner of the product. Moreover, it does not cover the cost of disconnection, transport, and installation.

The warranty is limited to the repair or the replacement of the unit or the refund of its purchase price, **at the discretion of Stelpro**. Any parts replaced or repaired within the warranty period with the written authorization of Stelpro will be warranted for the remainder of the original warranty period. This warranty will be considered null and void and Stelpro will have the right to refuse any claims if **products have been altered** without the written authorization of Stelpro and if the nameplate numbers have been removed or modified. This warranty does not cover scratches, dents, corrosion or discoloration caused by excessive heat, chemical cleaning products and abrasive agents. It does not cover any damage that occurred during the shipping.

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages and some of them do not allow limitations on how long an implied warranty lasts, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state or from province to province.

YINAAAAN UJIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY.