# **MICRO PROCESSOR CONTROLLED BURNERS**



#### WITH LMV 2... MICRO PROCESSOR

- EA Medium-small burners complete with electronic cam
- EB Medium-small burners complete with electronic cam and inverter
- EC Medium-small dual fuel burners complete with electronic cam
- ED Medium-small dual fuel burners complete with electronic cam and inverter

#### WITH LMV 5... MICRO PROCESSOR

- ES Medium-small burners complete with electronic cam, without  $O_2$  control, without Inverter.
- EO Medium-small burners complete with electronic cam and  $O_2$  control, without Inverter
- El Medium-small burners complete with electronic cam and Inverter, without O<sub>2</sub> control
- EK Medium-small burners complete with electronic cam with O<sub>2</sub> control and with Inverter
- EF Medium-small burners complete with electronic cam and temperature-compensated flue gas recirculation FGR without O<sub>2</sub> monitoring, without inverter
- EG Medium-small burners complete with electronic cam, inverter and temperature-compensated flue gas recirculation FGR without O<sub>2</sub> monitoring
- EP Medium-small burners complete with electronic cam and temperature-compensated flue gas recirculation FGR with O<sub>2</sub> monitoring and without inverter
- ER Medium-small burners complete with electronic cam, inverter and temperature-compensated flue gas recirculation FGR with O<sub>2</sub> monitoring

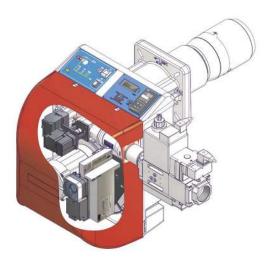


## WITH LMV 2... 3... MICROPROCESSOR for medium-small power burners

CIB UNIGAS S.p.A. can provide small and medium size burners (up to 2.050 kW) with an electronic control system. They can be used both on single fuel burners (gas or light oil) and on dual fuel burners (gas/light oil).

#### This system offers many features:

- Reduction of mechanical moving parts
- Built-in flame detection box
- Integrated gas proving system
- Possibility to install different types of flame sensors, so that the electronic cam system can be used on all applications
- Variable speed drive VSD (only on certain versions)
- Error-code display on screen in case of lock-out
- Possibility to program or to exclude the post purge time
- Display of hours run





Modbus communication, system, only upon request, through the software (to be quoted separately), except the basic version.

Optimal air/fuel ratio regulation, with high precision and repeatability of the regulations made.

**Easy programming**, both through the AZL programmer, and the proper software.

# WITH LMV 2... 3... MICROPROCESSOR for medium-small power burners

| Series               | Fuel  | LMV 20   | LMV 26   | LMV 37   | AGM60  | AZL 21   |  |
|----------------------|---|--|--|--|--|--|--|
| IDEA<br>(from NG280) | gas   | •  |  |  |  | •  |  |
| TECNOPRESS           | gas (up to 2")  | •  |  |  |  |  |  |
| TECNOPRESS           | gas (from DN65)   | •  |  |  |  |  |  |
| TECNOPRESS           | liquid fuel   | •  |  |  |  |  |  |
| TECNOPRESS           | gas (up to 2")  |  |  | •  |  |  |  |
| TECNOPRESS           | gas (from DN65)   |  |  | •  |  |  |  |
| TECNOPRESS           | liquid fuel   |  |  | •  |  |  |  |
| TECNOPRESS           | HP - C E KP   |  | •  |  |  |  |  |
| TECNOPRESS           | dual fuel burners KPBY  |  | •  |  | •  |  |  |
| TECNOPRESS           | HP - C E KP   |  | •  |  |  |  |  |
| TECNOPRESS           | dual fuel burners KPBY  |  | •  |  | •  |  |  |
|                      | IDEA NG280)<br>TECNOPRESS<br>TECNOPRESS<br>TECNOPRESS<br>TECNOPRESS<br>TECNOPRESS<br>TECNOPRESS<br>TECNOPRESS | IDEA<br>(from NG280)gasTECNOPRESSgas (up to 2")TECNOPRESSgas (from DN65)TECNOPRESSliquid fuelTECNOPRESSgas (up to 2")TECNOPRESSgas (from DN65)TECNOPRESSliquid fuelTECNOPRESSliquid fuelTECNOPRESSHP - C E KPTECNOPRESSHP - C E KP | IDEA<br>(from NG280)gasTECNOPRESSgas (up to 2")TECNOPRESSgas (from DN65)TECNOPRESSliquid fuelTECNOPRESSgas (up to 2")TECNOPRESSgas (from DN65)TECNOPRESSgas (from DN65)TECNOPRESSliquid fuelTECNOPRESSHP - C E KPTECNOPRESSHP - C E KP | IDEA<br>(from NG280)gasImage: marked stress | IDEA<br>(from NG280)gasideaideaTECNOPRESSgas (up to 2")ideaideaTECNOPRESSgas (from DN65)ideaideaTECNOPRESSliquid fuelideaideaTECNOPRESSgas (up to 2")ideaideaTECNOPRESSgas (from DN65)ideaideaTECNOPRESSgas (from DN65)ideaideaTECNOPRESSgas (from DN65)ideaideaTECNOPRESSliquid fuelideaideaTECNOPRESShP - C E KPideaideaTECNOPRESSHP - C E KPideaideaTECNOPRESSHP - C E KPideaidea | IDEA<br>(from NG280)gasimageimageimageTECNOPRESSgas (up to 2")imageimageimageimageTECNOPRESSgas (from DN65)imageimageimageimageTECNOPRESSliquid fuelimageimageimageimageTECNOPRESSgas (up to 2")imageimageimageimageTECNOPRESSgas (up to 2")imageimageimageimageTECNOPRESSgas (from DN65)imageimageimageimageTECNOPRESSliquid fuelimageimageimageimageTECNOPRESSliquid fuelimageimageimageimageTECNOPRESSdual fuel burners KPBYimageimageimageimageTECNOPRESSHP - C E KPimageimageimageimageTECNOPRESSHP - C E KPimageimageimageimageImageimageimageimageimageimageimageImageimageimageimageimageimageimageImageimageimageimageimageimageimageImageimageimageimageimageimageimageImageimageimageimageimageimageimageImageimageimageimageimageimageimageImageimageimageimageimageimageimage | IDEA<br>(from NG280)gasionionionTECNOPRESSgas (up to 2")ionionionionTECNOPRESSgas (from DN65)ionionionionTECNOPRESSiquid fuelionionionionTECNOPRESSgas (up to 2")ionionionionTECNOPRESSgas (up to 2")ionionionionTECNOPRESSgas (from DN65)ionionionionTECNOPRESSgas (from DN65)ionionionionTECNOPRESSiquid fuelionionionionTECNOPRESSiquid fuelionionionionTECNOPRESSidual fuel burners KPBYionionionionTECNOPRESSiHP - C E KPionionionionionTECNOPRESSiHP - C E KPionionionionion |

|        | 3            |              |              |              |                      |          |
|--------|--------------|--------------|--------------|--------------|----------------------|----------|
| AZL 23 | SQN14<br>air | SQN14<br>gas | SQM33<br>air | SQM33<br>gas | SQM33<br>liquid fuel | INVERTER |
|        | •            | •            |              |              |                      |          |
| •      |              | •            | •            |              |                      |          |
| •      |              |              | •            | •            |                      |          |
| •      |              |              | •            |              | •                    |          |
| •      |              | •            | •            |              |                      | •        |
| •      |              |              | •            | •            |                      | •        |
| •      |              |              | •            |              | •                    | •        |
| •      |              |              | •            | •            |                      |          |
| •      |              |              | •            | •            | •                    |          |
| •      |              |              | •            | •            |                      | •        |
| •      |              |              | •            | •            | •                    | •        |

# GAS WITH LMV 20... Electronically Operated without Inverter complete with leakage control

## Version EA (Idea)





LMV 20...





Servomotor AIR SQN14...



Servomotor GAS SQN14...

| Series | Burner Type                                  | Extra charge € |
|--------|--|----------------|
| GAS    | NG280EA<br>NG350EA<br>NG400EA<br>NG550EA     |                |
| GAS    | NGX280EA<br>NGX350EA<br>NGX400EA<br>NGX550EA |                |

## GAS WITH LMV 20... Electronically Operated without Inverter complete with leakage control

## Version EA (Tecnopress)





LMV 20...

AZL 23



Servomotor AIR SQM33...



Servomotor GAS SQN14...

| Series | Burner Type  | Extra charge € |
|--------|--|----------------|
| GAS    | P61 1.32 /40/50/65EA<br>P65 1.40/50/65EA<br>P71 1.50EA                                 |                |
| GAS    | C85A 1.32 /40/50/65EA<br>C120A 1.40/50/65/80EA<br>E165A 1.40/50EA*<br>E205A 1.40/50EA* |                |
| GAS    | C83X 1.32 /40/50/65EA<br>E115X 1.40/50EA*<br>E150X 1.40/50EA*<br>E180X 1.40/50EA*      |                |

\* Only gas train up to 2" (DN 50)

## GAS WITH LMV 20... Electronically Operated without Inverter complete with leakage control

## Version EA (Tecnopress)





LMV 20...





Servomotor AIR SQM33...



Servomotor GAS SQM33...

| Series | Burner Type   | Extra charge € |
|--------|---|----------------|
| GAS    | C85A 1.65EA<br>E165A 1.65/80EA<br>E205A 1.65/80EA     |                |
| GAS    | E115X 1.65/80EA<br>E150X 1.65/80EA<br>E180X 1.65/80EA |                |

# GAS WITH LMV 37... Electronically Operated with Inverter

## Version EB (Tecnopress)









Servomotor AIR SQM33...



Servomotor GAS SQN14...



Inverter

| Series | Burner Type  | Extra charge € |
|--------|--|----------------|
| GAS    | P61 1.32 /40/50/65EB<br>P65 1.40/50/65EB<br>P71 1.50EB                               |                |
| GAS    | C85A 1.32 /40/50/65EB<br>C120A 1.40/50EB**<br>E165A 1.40/50EB**<br>E205A 1.40/50EB*  |                |
| GAS    | C83X 1.32 /40/50/65EB<br>E115X 1.40/50EB**<br>E150X 1.40/50EB**<br>E180X 1.40/50EB** |                |

\*\* Only gas train up to 2" (DN 50)

# GAS WITH LMV 37... Electronically Operated with Inverter

## Version EB (Tecnopress)







Servomotor



Servomotor GAS SQM33...



LMV 37...

AZL 23

AIR SQM33...

Inverter

| Series | Burner Type  | Extra charge € |
|--------|--|----------------|
| GAS    | C85A 1.65EB<br>E165A 1.65/80EB<br>E205A 1.65/80EB    |                |
| GAS    | E115X 1.65/80EB<br>E150X 1.65/80EB<br>E180X 1.65/8EB |                |

# LIGHT OIL BURNERS WITH LMV 20... Electronically Operated without Inverter

## Version EA (Tecnopress)









\* Servomotor AIR SQM33...



\* Servomotor LIGHT OIL SQM33...

| Series    | Burner Type                | Extra charge € |
|-----------|----------------------------|----------------|
| LIGHT OIL | PG60EA<br>PG70EA<br>PG81EA |                |

\* Servomotor SQM33.711A9 for air, light oil

# LIGHT OIL BURNERS WITH LMV 37... Electronically Operated with Inverter

## Version EB (Tecnopress)



LMV 37...





\*\* Servomotor AIR SQM33...



\*\* Servomotor LIGHT OIL SQM33...



Inverter

| Series  | Burner Type      | Extra charge € |
|---------|------------------|----------------|
| GASOLIO | PG60EB<br>PG70EB |                |
|         | PG81EB           |                |

\* Servomotor SQM33.711A9 for air, light oil

## DUAL FUEL BURNERS GAS/LIGHT OIL GAS/HEAVY OIL WITH LMV 26... Electronically Operated without Inverter complete with leakage control

### Version EC (Tecnopress)



LMV 26...





\*\* Servomotor AIR SQM33...



\*\* Servomotor

GAS LIGHT OIL-HEAVY OIL

SQM33...



\* Servomotor HEAVY OIL SQM33...

| Series                     | Burner Type  | Extra charge € |
|----------------------------|--|----------------|
| DUAL FUEL<br>GAS/LIGHT OIL | HP60 1.32/40/50/65EC<br>HP72 1.50/65/80EC                                      |                |
| DUAL FUEL<br>GAS/LIGHT OIL | C92A MG 1.32 /40/50/65EC<br>C120A MG 1.40/50/65/80EC                           |                |
| DUAL FUEL<br>GAS/LIGHT OIL | E165A MG 1.40/50/65/80EC<br>E205A MG 1.40/50/65/80EC                           |                |
| DUAL FUEL<br>GAS/LIGHT OIL | C83X MG1.32 /40/50/65EC  |                |
| DUAL FUEL<br>GAS/LIGHT OIL | E115X MG1.40/50/65/80EC<br>E150X MG 1.40/50/65/80EC<br>E180XMG 1.40/50/65/80EC |                |
| dual fuel<br>Gas/heavy oil | KP60EC<br>KP72EC<br>KP73EC   |                |
| DUAL FUEL<br>GAS/HEAVY OIL | KPBY72EC<br>KPBY73EC   |                |

\* Only KPBY version

\*\* Servomotor SQM33.711A9 for air, light oil and heavy oil

# DUAL FUEL BURNERS GAS/LIGHT OIL GAS/HEAVY OIL WITH LMV 26... Electronically Operated with Inverter

### Version ED (Tecnopress)







AZL 23



\*\* Servomotor AIR SQM33...



\*\* Servomotor GAS SQM33...





Inverter

| Series                     | Burner Type  | Extra charge € |
|----------------------------|--|----------------|
| DUAL FUEL<br>GAS/LIGHT OIL | HP60 1.32/40/50/65ED<br>HP72 1.50/65/80ED  |                |
| DUAL FUEL<br>GAS/LIGHT OIL | C92A MG 1.32 /40/50/65ED<br>C120A MG 1.40/50/65/80ED                             |                |
| DUAL FUEL<br>GAS/LIGHT OIL | E165A MG 1.40/50/65/80ED<br>E205A MG 1.40/50/65/80ED                             |                |
| DUAL FUEL<br>GAS/LIGHT OIL | C83X MG1.32 /40/50/65ED  |                |
| DUAL FUEL<br>Gas/Light oil | E115X MG 1.40/50/65/80ED<br>E150X MG 1.40/50/65/80ED<br>E180X MG 1.40/50/65/80ED |                |
| DUAL FUEL<br>GAS/HEAVY OIL | KP60ED<br>KP72ED<br>KP73ED   |                |
| DUAL FUEL<br>GAS/HEAVY OIL | KPBY72ED<br>KPBY73ED   |                |

\* Only KPBY version

\*\* Servomotor SQM33.711A9 for air, light oil and heavy oil

## ELECTRONIC SUPERVISION AND CONTROL SYSTEM WITH LMV 5... for medium and small output burners

CIB UNIGAS S.p.A. has adopted, in its series of burners, an electronic system of command and control.

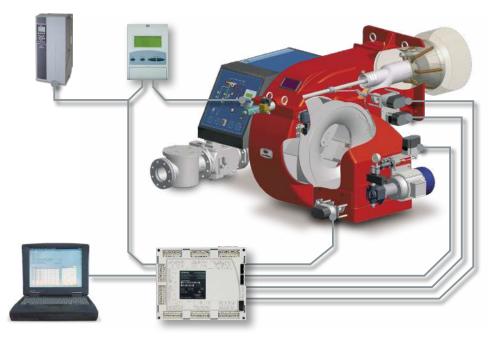
This innovative system, divided into two types of devices, can be used both for civil and industrial installations (up to 2.050 kW) and for burners which use a single or mixed fuel and with continuous or intermittent operation. This system allows the control of the various elements which play an important role in the correct mixture of the fuel and combustion air.

This solution permits to achieve the maximum precision in the combustion adjustment.

The system can also be expanded through interface with an oxygen control probe and/or a fan speed adjustment inverter in order to improve the performance. In this way we can obtain high savings both in terms of fuel and electric power required.

The command and control system is composed of a twin microprocessor electronic unit, which integrates all burner's command and control functions, and of a programming and adjustment local unit.

Integrated functions include air/fuel ratio adjustment (with work point configuration possibility), PID temperature or pressure regulator, gas valve leakage control, adjustable cycle times, preconfigured fuel trains, and input/ output configuration. The programming levels are protected by password for three types of users (manufacturer, servicing personnel, final user); the dialogue between servocontrol and sensors is performed using twinchannel CAN Bus protocol in order to guarantee the greatest safety and reliability. The unit can be installed directly in the machine or



inside a separate electric control panel which is positioned no further away than 100 meters. Using the appropriate designated optional software, the system can be configured directly by PC.

#### Flame control box integrated functions:

- Burner control;
- Electronic cam;
- Power regulator;
- Gas valve leakage control system;
- Oxygen control;
- Inverter control;
- Dialogue with BMS systems or PLC (MOD Bus);
- Burner commissioning and configuration via PC-tool;
- Simple programming with AZL and PC-tool;
- Complete self-diagnostic function (error memory, number of firings, burner operation time, clock, etc.);
- 3 levels of parameter access (manufacturer, servicing personnel, final user);
- Remote diagnostics;
- · All components can be easily interchanged;
- Parameter upgrading with PC-tool;
- Dialogue with MOD Bus protocol.

# WITH LMV 5... MICROPROCESSOR for medium and small output burners

| Model | Series     | Fuel                 | LMV 51.100 | LMV 51.300 | LMV 52.200 | LMV 52.400 |  |
|-------|------------|----------------------|------------|------------|------------|------------|--|
| ES    | TECNOPRESS | gas                  | •          |            |            |            |  |
| ES    | TECNOPRESS | liquid fuel          | •          |            |            |            |  |
| ES    | TECNOPRESS | dual fuel<br>burners | •          |            |            |            |  |
| EO    | TECNOPRESS | gas                  |            |            | •          |            |  |
| EO    | TECNOPRESS | dual fuel<br>burners |            |            | •          |            |  |
| EI    | TECNOPRESS | gas                  |            | •          |            |            |  |
| EI    | TECNOPRESS | liquid fuel          |            | •          |            |            |  |
| EI    | TECNOPRESS | dual fuel<br>burners |            | •          |            |            |  |
| EK    | TECNOPRESS | gas                  |            |            | •          |            |  |
| EK    | TECNOPRESS | dual fuel<br>burners |            |            | •          |            |  |
| EF    | TECNOPRESS | gas                  |            |            |            | •          |  |
| EF    | TECNOPRESS | dual fuel<br>burners |            |            |            | •          |  |
| EG    | TECNOPRESS | gas                  |            |            |            | •          |  |
| EG    | TECNOPRESS | dual fuel<br>burners |            |            |            | •          |  |
| EP    | TECNOPRESS | gas                  |            |            |            | •          |  |
| EP    | TECNOPRESS | dual fuel<br>burners |            |            |            | •          |  |
| ER    | TECNOPRESS | gas                  |            |            |            | •          |  |
| ER    | TECNOPRESS | dual fuel<br>burners |            |            |            | •          |  |

\* Only monitoring

For burner configurations in Lamtec version with  $O_2 + CO$  oxygen control, please contact our sales department.

|        | 1            |              |                      |              |             |              |          |
|--------|--------------|--------------|----------------------|--------------|-------------|--------------|----------|
|        |              |              |                      |              |             |              |          |
| AZL 5x | SQM4x<br>air | SQM4x<br>gas | SQM4x<br>liquid fuel | SQM4x<br>FGR | O₂<br>PROBE | FGR<br>PROBE | INVERTER |
| •      | •            | •            |                      |              |             |              |          |
| •      | •            |              | •                    |              |             |              |          |
| •      | •            | •            | •                    |              |             |              |          |
| •      | •            | •            |                      |              | •           |              |          |
| <br>•  | •            | •            | •                    |              | •           |              |          |
| •      | •            | •            |                      |              |             |              | •        |
| •      | •            |              | •                    |              |             |              | •        |
| •      | •            | •            | •                    |              |             |              | •        |
| •      | •            | •            |                      |              | •           |              | •        |
| •      | •            | •            | •                    |              | •           |              | •        |
| <br>•  | •            | •            |                      | •            |             | •            |          |
| •      | •            | •            | •                    | •            |             | •            |          |
| <br>•  | •            | •            |                      | •            |             | •            | •        |
| •      | •            | •            | •                    | •            |             | •            | •        |
| •      | •            | •            |                      | •            | • *         | •            |          |
| •      | •            | •            | •                    | •            | • *         | •            |          |
| •      | •            | •            |                      | •            | • *         | •            | •        |
| •      | •            | •            | •                    | •            | • *         | •            | •        |

# BURNERS WITH LMV 5... Micro Processor

## Version ES (Tecnopress)



#### Electronically operated burners without $\mathbf{O}_2$ trim and inverter.

| Series    | Burner Type  | Extra charge € |
|-----------|--|----------------|
| GAS       | P61ES<br>P65ES<br>P71ES  |                |
| GAS       | C85A 1.32 /40/50/65ES<br>C120A 1.40/50/65/80ES<br>E165A 1.40/50/65/80ES<br>E205A 1.40/50/65/80ES |                |
| GAS       | C83X 1.32 /40/50/65ES<br>E115X 1.40/50/65/80ES<br>E150X 1.40/50/65/80ES<br>E180X 1.40/50/65/80ES |                |
| HEAVY OIL | PN60 - PN70 - PN81ES   |                |



#### Electronically operated burners without $O_2$ trim and inverter.

| Series                     | Burner Type  | Extra charge € |
|----------------------------|--|----------------|
| DUAL FUEL<br>GAS/LIGHT OIL | C92A MG 1.32 /40/50/65ES<br>C120A MG 1.40/50/65/80ES<br>E165A MG 1.40/50/65/80ES<br>E205A MG 1.40/50/65/80ES |                |
| DUAL FUEL<br>GAS/LIGHT OIL | C83X MG 1.32 /40/50/65ES<br>E115X MG 1.40/50/65/80ES<br>E150X MG 1.40/50/65/80ES<br>E180X MG 1.40/50/65/80ES |                |
| dual fuel<br>Gas/Heavy oil | KP60 - KP72 -KP73ES  |                |

## Version EO (Tecnopress)



#### **Electronically operated burners with O**<sub>2</sub> trim without inverter. With oxygen probe

| Series | Burner Type  | Extra charge € |
|--------|--|----------------|
| GAS    | P61E0<br>P65E0<br>P71E0  |                |
| GAS    | C85A 1.32 /40/50/65E0<br>C120A 1.40/50/65/80E0<br>E165A 1.40/50/65/80E0<br>E205A 1.40/50/65/80E0 |                |
| GAS    | C83X 1.32 /40/50/65E0<br>E115X 1.40/50/65/80E0<br>E150X 1.40/50/65/80E0<br>E180X 1.40/50/65/80E0 |                |

### Version EO (Tecnopress)



# Electronically operated burners with $O_2$ trim without inverter. With oxygen probe

| Series                          | Burner Type  | Extra charge € |
|---------------------------------|--|----------------|
| DUAL FUEL<br>GAS/LIGHT OIL      | C92AMG 1.32 /40/50/65E0<br>C120AMG 1.40/50/65/80E0<br>E165AMG 1.40/50/65/80E0<br>E205AMG 1.40/50/65/80E0 |                |
| DUAL FUEL<br>GAS/LIGHT OIL      | C83XMG 1.32 /40/50/65E0<br>E115XMG 1.40/50/65/80E0<br>E150XMG 1.40/50/65/80E0<br>E180XMG 1.40/50/65/80E0 |                |
| DUAL FUEL<br>GAS/HEAVY OILE**** | KP60 - KP72 -KP73E0  |                |

\*\*\*\* The  $\rm O_{2}$  trim can be performed only when working with gas.

## BURNERS WITH LMV 5... Micro Processor

#### Version El (Tecnopress)



#### Electronically operated burners complete with inverter without oxygen trim.

| Series | Burner Type  | Extra charge € |
|--------|--|----------------|
| GAS    | P61El<br>P65El<br>P71El  |                |
| GAS    | C85A 1.32 /40/50/65El<br>C120A 1.40/50/65/80El<br>E165A 1.40/50/65/80El<br>E205A 1.40/50/65/80El |                |
| GAS    | C83X 1.32 /40/50/65El<br>E115X 1.40/50/65/80El<br>E150X 1.40/50/65/80El<br>E180X 1.40/50/65/80El |                |

#### Version EI (Tecnopress)













INVERTER

#### Electronically operated burners complete with inverter without oxygen trim.

| Series                     | Burner Type  | Extra charge € |
|----------------------------|--|----------------|
| DUAL FUEL<br>GAS/LIGHT OIL | C92AMG 1.32 /40/50/65El<br>C120AMG 1.40/50/65/80El<br>E165AMG 1.40/50/65/80El<br>E205AMG 1.40/50/65/80El |                |
| DUAL FUEL<br>GAS/LIGHT OIL | C83XMG 1.32 /40/50/65El<br>E115XMG 1.40/50/65/80El<br>E150XMG 1.40/50/65/80El<br>E180XMG 1.40/50/65/80El |                |
| DUAL FUEL<br>GAS/HEAVY OIL | KP60 - KP72 -KP73El  |                |

#### Version EK (Tecnopress)

| LMV 52 | AZL 5 | SQM4 | SQM4 | O2 PROBE | INVERTER |
|--------|-------|------|------|----------|----------|

# Electronically operated burners complete with inverter and ${\rm O_2}$ trim. With oxygen probe

| Series | Burner Type  | Extra charge € |
|--------|--|----------------|
| GAS    | P61EK<br>P65EK<br>P71EK  |                |
| GAS    | C85A 1.32 /40/50/65EK<br>C120A 1.40/50/65/80EK<br>E165A 1.40/50/65/80EK<br>E205A 1.40/50/65/80EK |                |
| GAS    | C83X 1.32 /40/50/65EK<br>E115X 1.40/50/65/80EK<br>E150X 1.40/50/65/80EK<br>E180X 1.40/50/65/80EK |                |

#### Version EK (Tecnopress)



# Electronically operated burners complete with inverter and ${\rm O_2}$ trim. With oxygen probe

| Series                         | Burner Type  | Extra charge € |
|--------------------------------|--|----------------|
| DUAL FUEL<br>GAS/LIGHT OIL     | C92AMG 1.32 /40/50/65EK<br>C120AMG 1.40/50/65/80EK<br>E165AMG 1.40/50/65/80EK<br>E205AMG 1.40/50/65/80EK |                |
| DUAL FUEL<br>GAS/LIGHT OIL     | C83XMG 1.32 /40/50/65EK<br>E115XMG 1.40/50/65/80EK<br>E150XMG 1.40/50/65/80EK<br>E180XMG 1.40/50/65/80EK |                |
| DUAL FUEL<br>GAS/HEAVY OIL**** | KP60 - KP72 -KP73EK  |                |

\*\*\*\* The  $\rm O_2$  trim can be performed only when working with gas.

# NATURAL GAS BURNERS

| idea series         |                     | tecnopress series     | tecnopress s            |
|---------------------|---------------------|-----------------------|-------------------------|
| NG35 - TN           | NG200 - TN/AB/PR/MD | <b>P61</b> - AB/PR/MD | C85A - AB/PR/MD         |
| NG70 - TN/AB        | NG280 - TN/AB/PR/MD | <b>P65</b> - AB/PR/MD | <b>C120A</b> - AB/PR/MD |
| NG90 - TN/AB        | NG350 - TN/PR/MD    | <b>P71</b> - AB/PR/MD | E165A - AB/PR/MD        |
| NG120 - TN          | NG400 - TN/PR/MD    |                       | <b>E205A</b> - AB/PR/MD |
| NG140 - TN/AB/PR/MD | NG550 - TN/PR/MD    |                       |                         |
|                     |                     |                       |                         |

#### Туре P71 P65 (from 270 P61 (from 160 to 800 kW) NG550 (from 160 to 570 kW) NG400 (from 115 to 420 kW) NG350 (from 80 to 330 kW) (from 65 to 300 kW) NG280 NG200 (from 42 to 200 kW) (from 35 to 170 kW) NG140 (from 60 to 120 kW) NG120 (from 22 to 85 kW) NG90 (from 19 to 70 kW) NG70 (from 20 to 41 kW) NG35

| E205A | E205A |  |  |  |          |  |   |             | <u> </u> |  |
|-------|-------|--|--|--|----------|--|---|-------------|----------|--|
|       |       |  |  |  |          |  |   |             | <u> </u> |  |
| E165A |       |  |  |  | 1000     |  |   |             |          |  |
| C120A |       |  |  |  | 010 0070 |  |   |             |          |  |
|       |       |  |  |  |          |  |   |             |          |  |
| C85A  |       |  |  |  |          |  | ( | from 230 to | 850 kW)  |  |
|       |       |  |  |  |          |  | , |             |          |  |



|            |            |     | ( | from 300 to | o 1.650 kW) | )   |   |  |
|------------|------------|-----|---|-------------|-------------|-----|---|--|
| to 970 kW) |            |     |   |             |             | 112 |   |  |
|            |            |     |   |             |             |     |   |  |
|            |            |     |   |             |             | -   |   |  |
|            |            |     |   |             |             |     |   |  |
|            |            |     |   |             |             |     |   |  |
| 1          | e)         |     |   | -           |             |     | 0 |  |
| 6          |            |     |   |             | E C         | 0   |   |  |
|            |            |     |   |             |             | P   |   |  |
|            | 5.         |     |   |             |             |     |   |  |
|            | $\bigcirc$ |     |   |             |             | 2   |   |  |
| Mr. 1/m    |            | 120 |   |             |             |     |   |  |
|            |            |     |   |             |             |     |   |  |

|                        |                        | (from 340 to 2.050 kW) |
|------------------------|------------------------|------------------------|
|                        | (from 320 to 1.650 kW) |                        |
| (from 300 to 1.200 kW) |                        |                        |
|                        |                        |                        |