All human body is supplied by peripheral circulation of blood and lymph.

Doctor Life system helps patients to recover from their disease by improving blood and lymph circulation and metabolism.

Doctor Life system consists of air chambers and an air pump offering air compression massage to legs, arms or waist.

- **28430 DL 2002 D BASIC** with 2 legs (98x38 cm) - 4 chambers 1 single and 1 double hose and cable
  - This system can operate with 3 compression modes.
  - TECHNICAL SPECIFICATIONS
    - pressure sensor
    - digital timer (10, 20, 30, 40 min)
    - digital pressure gauge (10–180 mmHg)
  - use time: 0~90 minutes
  - hold time: 0~6 seconds
  - interval time: 0~19 seconds
  - body size: 190x250x210 mm
  - body weight: 3 kg

- **28434 LEG EXTENSION ZIPPER** - 10 cm extra extension
- **28440 DOUBLE HOSE** - to use two leg cuffs at the same time - spare
- **28436 ARM CUFF unique size** - 86x29 cm
- **28437 WAIST CUFF 130x38 cm**

- **28450 DL850 PROFESSIONAL SYSTEM** with 2 legs (102x35 cm), 1 arm - 6 chambers (87x25 cm), double hose and cable
  - This system can operate with 8 compression modes.
  - Every chamber can have a different pressure or can work only with 1 selected chamber. Graphic LCD display. Inflation and interval time control by two separate keys.
  - TECHNICAL SPECIFICATIONS
    - Pressure sensor
    - Use time: 0–90 minutes
    - Hold time: 0–6 seconds
    - Interval time: 0–19 seconds
    - Body size: 370x390x190 mm
    - Body weight: 13 kg

- **28453 LEG CUFF 92x31 cm**
- **28454 ARM CUFF unique size** - 86x29 cm
- **28455 WAIST CUFF 128x51 cm**
- **28458 DOUBLE HOSE** - to use two leg cuffs at the same time - spare
- **28459 LEG EXTENSION ZIPPER** - 10 cm extra extension

Doctor Life system helps patients to recover from their disease by improving blood and lymph circulation and metabolism.

Medical indications
- DVT (Deep Vein Thrombosis)
- Lymph edema
- Post-paralytic
- Limb convulsion
- Venosclerosis
- Chronic venous insufficiency (CVI)
- Post-mastectomy
- Post-trauma
- Spinal cord injury
- Varicose veins
- Sciatica
- Sprains
- Diabetes
- Cellulite

Home care indications
- Lymph edema
- Diseases caused by interrupted blood circulation
- Fat dissolution
- Pregnant woman’s limb treatment
- Benumbed feet or hands
- Cold feet or hands
- Settlement of stress
- Exercise effects
- Insomnia
- Healthier body and elastic skin

Drainage, Circulation & Massage

**SEMIPROFESSIONAL MODEL (Home-Hospital)**

- Universal cable included is suitable for leg, arm and waist cuff
- Waist cuff 130x38 cm (28437)
- Possibility to use 2 leg cuffs in the same time with double hose (code 28440)
- Standard arm (28454)
- Standard leg (28453)

**HIGH CLASS PROFESSIONAL MODEL**

- 28453 LEG CUFF 92x31 cm
- 28458 DOUBLE HOSE - to use two leg cuffs at the same time - spare
- 28459 LEG EXTENSION ZIPPER - 10 cm extra extension
- 28454 ARM CUFF - 6 CHAMBER 87x25 cm - spare
- 28455 WAIST CUFF 128x51 cm

You can use contemporary 2 leg cuffs. For this function you need double hose (code 28458).
I-TECHAR - PROFESSIONAL TECAR THERAPY

• 28363 I-TECHAR TECAR THERAPY

Diathermy, also known as TECAR Therapy (meaning Capacitive and Resistive Energy Transfer), is a therapy stimulating the physiological healing process by accelerating the recovery time of motor function.

Diathermy stimulates tissues endogenous heat production through the interaction of electromagnetic field and tissue. The heat is increased in a uniform controlled way. The electromagnetic interaction results in an ionic flow and consequently increases blood flow in the treated area.

This process stimulates endogenous substances release (in particular cortisol and endorphins) that are necessary to reduce inflammations, pain and edemas.

The new I-TECH.AR resistive/capacitive diathermy is a modern and highly performing device easy to use by professionals. Pre-programmes help use the device from the start. Moreover the device can set parameters (power, time therapy, capacitive/resistive modes) according to therapeutic needs. It is provided with SMART CARD to allow the memorization of customized programmes. In this way patient protocols are easily consulted by therapists at any time.

I-TECH.AR is equipped with a wide graphic display showing therapy parameters and different working modes. Menu can be easily scrolled by a comfortable control knob.

• 33251 CONDUCTIVE CREAM DISPENSER 1 kg

Moisturizing conductive cream ideal for Tecar therapy.

I-TECH UT2 - PROFESSIONAL ULTRASOUND THERAPY

• 28358 I-TECH UT2 ULTRASOUND THERAPY - 2 probes

Professional ultrasound device equipped with 2 handles respectively with 5 cm² and 1 cm² probe. Its equipment and parameters setting allow high performance suitable for professional users.

It is provided with 10 preset programmes within which professional user can adjust following parameters:
- Frequency (1 or 3 MHz)
- Effective intensity (up to 3 W/cm²)
- Duty cycle (10%±100% stepping 10%)
- Therapy time (up to 30 minutes)

TECHNICAL SPECIFICATIONS

Operating voltage: 100-240 V, 47/63 Hz, 1.35A, output 15V 3A max
Ultrasonic frequency: 1 MHz ± 10% and 3 MHz ±10%
Output power: 0.5-10 W ± 20% when duty cycle > 80% for 5 cm² ultrasound head
0.5-15 W ±20% when duty cycle ≤ 70% for 5 cm² ultrasound head
0.1-2 W ±20% when duty cycle > 80% for 1 cm² ultrasound head
0.1-3 W ±20% when duty cycle ≤ 70% for 1 cm² ultrasound head
Max Power: 3 W/cm² ± 20% (1 MHz)
3 W/cm² ± 20% (3 MHz)
Working frequency: 100 Hz
Duty cycle: 10%-100% stepping 10%
Maximum adjustable therapy time 30 minutes
Effective radiating area 5 cm² ± 20%; 1 cm² ±20%
Collimated beam type Ultrasound head (material) aluminium
Direct contact and water immersion use
Led indicator Size: 350x186x86 mm

APPLICATIONS


STANDARD ACCESSORIES

1 handle with 5 cm² probe
1 handle with 1 cm² probe
1 power supply cable
1 power supply cable
1 ultrasound gel
User manual: GB, IT, ES
GIMA UT AUTOMATIC: ULTRASOUND THERAPY UNIT

28310 GIMA UT AUTOMATIC
ultrasound therapy unit without head
GIMA UT is an automatic system for ultrasound therapy which makes possible the use of ultrasound head with oscillation frequency from 1 MHz to 3 MHz.

TECHNICAL SPECIFICATIONS
- Treatment time: programmable from 1 to 30 minutes
- Selectable pulse/time%: 10%-20%-30%-50%-100%
- Pulse frequency: 2 pulses/second
- Max. intensity: 3 W/cm²
- Operating voltage: 115/230 V - 50/60 Hz - switchable
- Size: 360x265x150 mm
- Weight: 8 kg
- Electrical safety class I BF - C E 93/42/EEC

Pulse frequency is 2 pulses/second. Modulation degree is selectable from 10% to 100%, through a digital keyboard. Maximum output power is: 37.7 W (3 W/cm²). Gima UT is recommended for: ultrasound lipoclasia, sports medicine, arthritis, arthrosis, neuralgia and backpain. Supplied with power cord and user’s manual. Made in Italy.

• 28312 1 MHz ULTRASOUND HEAD Ø 60 mm
1 MHz frequency is recommended for physiotherapy.
• 28313 3 MHz ULTRASOUND HEAD Ø 60 mm
3 MHz frequency is recommended for aesthetics.

GIMA UTC 2: COMBINED ULTRASOUND AND ELECTROTHERAPY UNIT

28301 GIMA UTC 2 AUTOMATIC
UTC 2 is a programmable driver unit for ultrasound transducers with working frequencies from 1 up to 3 MHz together with 2 channels of electrotherapeutic current. UTC 2 delivers continuous or modulated ultrasound with programmable intensity and delivery time, suitable for thermo therapeutic deep treatment of different pathologic conditions. UTC 2 delivers Dyadynamic, Faradic, Galvanic, Impulsive, T.E.N.S. and Bipolar electrotherapeutical currents.
- high brightness graphic touchscreen display
- intuitive icons interface
- controls of unit by multifunction knob, keys or touchscreen
- possibility to upgrade
- wide range of preset protocols
- customized programmes
- multi frequency handpieces
- automatic identification of the connected accessory
- continuous or pulsed delivery
- combined with electrotherapy
- sequence of treatment phases planning for each channel
- independent channels
- safety control blocks the output current in case of accidental disconnection of electrodes.

6 language software: GB, FR, IT, ES, DE, PT. Made in Italy.

• 28302 1-3 MHz ULTRASOUND HEAD Ø 15 mm
• 28303 CONNECTING CABLE for electrotherapy - spare
• 28304 CLIP RUBBER ELECTRODES 120x80 mm - box of 12
• 28305 CLIP RUBBER ELECTRODES 45x60 mm - box of 12
• 28323 VELCRO ELASTIC BAND 100x8 cm - spare

TECHNICAL SPECIFICATIONS
- Output frequency (MHz): 1.0 to 3.0
- Max intensity (W/cm²): 3.0
- ET channels: 2
- Max output direct current (mA): 30
- Max output pulse current (mA): 70
- Max output voltage (Vdc): 100
- Power supply (Vac/Hz): 90-240 / 50-60
- Electrical input power (VA): 70

Connecting cable for electrotherapy

STANDARD ACCESSORIES
1-3 MHz ultrasound head Ø 35 mm
Connecting cable for electrotherapy 1-2 (28303)
4 rubber electrodes 120x80 mm
4 rubber electrodes 45x60 mm
3 velcro elastic belt: 8x40, 8x60, 8x100 cm
Power cable 2 m
MAGNETOTHERAPY UNITS: DOMICILIARY AND PROFESSIONAL MODELS

- 28326 MAGNETOTHERAPY PROFESSIONAL - unit only
- 28327 KIT: 1 BELT + 2 PLATE TRANSDUCER - 100 Gauss
- 28323 VELCRO ELASTIC BAND 100x8 cm - spare
- 28325 CYLINDER Ø 24 cm - 100 Gauss
- 28329 CYLINDER Ø 50 cm - 80 Gauss
- 28328 CYLINDER Ø 60 cm - 80 Gauss

MAGNETOMED is an ELF (Extremely Low Frequency) magnetotherapeutic unit designed for professional ambulatory or at patient home applications.

It is useful in the therapies that require treatment repetitions for a long period and/or long duration, or therapies on traumatized or immobilized patient that have difficulty to reach an outpatient physiotherapy room.

Applications:
The main effects of the ELF magnetic therapeutic fields are:
- antiademic, antalgic, antiflogistic, regenerative
- Main fields of application are: traumatology, rheumatology, angiology, neurology, dermatology, endocrinology.

MAG 2000 LOW FREQUENCY, HIGH INTENSITY MAGNETOTHERAPY

- 28300 MAG 2000 MAGNETOTHERAPY - 2 channels

MAG 2000 is an ideal device for domiciliary and professional magnetotherapy.
Two channels 150 gauss each to easily treat different body parts through the highly appreciated elastic therapeutic belt with 3 solenoids.

35 programmes: 20 pre-set programmes for the treatment of several pathologies, 14 programmes identified by the working frequency (from 1 to 100 Hertz) and an Autoscan programme with continuous frequency variation for the treatment of both hard and soft tissues at the same time. MAG 2000 has the possibility to set the intensity of magnetic field for all the programmes up to 300 Gauss on 2 channels (150 Gauss for single channel).

Operating power 110-240 V.
Supplied with elastic therapeutic belt with 3 solenoids and bag.

T-ONE EVO II - 4 CHANNEL ALTERNATE CURRENT ELECTROTHERAPY

- 28338 T-ONE EVO II ELECTROTHERAPY - 4 channels

101 programmes for over 300 applications (pain, fitness, sport, beauty). T-ONE EVO II can generate alternate impulses on its four channels to produce sequential stimulations or contractions. In this way T-ONE EVO II stimulates kinetic chains for re-educational purpose, and can also be used in fitness training. The high power of T-ONE EVO II can satisfy both the home users and the sportmen.

Main features:
- 4 independent channels for the connections of 8 electrodes
- constant current generator (can guarantee a constant current even when skin condition changes, the device automatically stops in the event of accidental electrodes disconnection)
- compensated biphasic square wave: avoids hazardous thermic effect of polarization
- user feedback: T-ONE recognizes patient connection
- soft-touch easy to use keyboard
- on-line guide on display for fast instructions
- internal Ni-Mh rechargeable battery pack (1600 mAh)
- different treatments for man and woman
- maximum intensity 240 mA with 0.5 mA step regulation
- 5 languages menu (GB, FR, IT, DE ES) and 3 languages manual (GB, FR, IT) ES manual on request
- compliance with 93/42/EEC MDD (medical device CE0476).

STANDARD ACCESSORIES
4 connection cables (8 electrodes)
user manual (GB, FR, IT) and electrodes positions manual
5 electrodes packages
Internal Ni-Mh rechargeable battery pack and battery charger carrying bag

TECHNICAL SPECIFICATIONS
- Working frequencies: 2, 5, 10, 20, 30, 40, 50, 60 Hz
- Intensity control: 20, 40, 60, 80, 99%
- Time of treatment: 1-99 min
- Active channels: CH1 - CH2 - CH1+CH2
- Operating Voltage: 115/230V
- Power: 220 VA
- Norms: EN60601-1 (CE) - C 93/42/EEC

Plates and Cylinder are not included in standard configuration.
IONO BASE PLUS - GALVANIC IONOPHORESIS

• 28306 IONO BASE - PLUS - 2 channels
Local administration of medicines by ionophoretics, electric osmosis and treatment of hyper hydrosis (sweating disease) and cellulitis. Current generator for hydro galvanization, aesthetic shaping and against cellulitis slight blemish. Microprocessor controlled, with selection of parameters and internal programs it is characterized by its simplicity and safety of use, although it maintains characteristics of a professional equipment. Complete kit of accessories for treatment (see photo). It comes with ABS case and velcro elastic bands, rubber conductive electrodes 80x120mm and 50x50mm and envelopes sponges for electrodes. Made in Italy.

• 28335 RUBBER ELECTRODES 50x50 mm - box of 10
• 28336 SPONGE BAGS for electrodes 50x50 mm - box of 10

TECHNICAL SPECIFICATIONS
Size: 138 x 68 x 193 mm
Operating Voltage: 230 V - 50/60 Hz
Absorbed Max Power: 10 VA
Safety class: II BF - CE 93/42/EEC. Made in Italy.

12 - PROGRAM DIGITAL STIMULATOR - for AESTHETIC, REHABILITATION and SPORT

• 28308 STIM BASE PLUS - 12 programs - 2 channels
Bipolar pulsing, square-wave current generator for muscle toning and stimulation as well as pain relief. Stim base is microprocessor controlled, with 2 output channels and 12 pre-set programs (5 sporting, 4 aesthetic and 3 rehabilitative). Sporting programs deliver balanced stimulation to single flexion-extension muscle actions. In aesthetic treatments the system uses the properties of the applied DC current to induce vasodilatation, lymphatic drainage, microcirculation renewal and toning with selective modeling. Therapy programs allow resolution of muscles micro trauma. Supplied in ABS case with all standard accessories shown in this picture.

• 28317 KIT OF 4 ELECTRODES - spare - 4.5x8 cm

TECHNICAL SPECIFICATIONS
Size: 138x68x193 mm
Operating Voltage: 230 V - 50/60 Hz
Absorbed Max Power: 10 VA
Max Output Current: 60 mA
Safety class: II BF - CE 93/42/EEC. Made in Italy.

MT BASE: MAGNETOTHERAPY

• 28321 GIMA MT BASE PLUS - magnetotherapy
Magneto Base Plus + is an ELF low frequency magnetotherapeutic unit designed for domiciliary applications. The most important effects of the magnetic fields are: Antiedemigen / Analgesic / Antiphlogistic / Regenerative and have applications in: traumatology, rheumatology, angiology, neurology, dermatology, endocrinology. The magnetic field produced is impulsive. The internal generator produces square waveform electrical current with frequency varying from 10 to 99 Hz and impulse time varying so to obtain a field's intensity determined from 10 to 80 Gauss. Internal sound sensor of magnetic field and safety system in case of short-circuit. Two transducers can be connected at the same time (the field produced by each transducer is half of the total).

<table>
<thead>
<tr>
<th>GIMA code</th>
<th>ACCESSORIES FOR MAGNETOTHERAPY</th>
<th>Minimum order</th>
</tr>
</thead>
<tbody>
<tr>
<td>28322</td>
<td>Plate transducer 70x120 mm</td>
<td>1 pc.</td>
</tr>
<tr>
<td>28323</td>
<td>Velcro elastic band 100x8 cm</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>

STANDARD ACCESSORIES
GIMA MT base unit
power cable
2 plate transducers 80 gauss - 120x70 mm
1 velcro elastic band 60xh 8 cm
1 velcro elastic band 100xh 8 cm
ABS carrying case
Manual (English, Italian)

TECHNICAL SPECIFICATIONS
Waveform: square
Max. ratio emission/pause: 50%
Selectible magnetic field from 10 to 80 Gauss
Selectible frequency: from 10 to 99 Hz
Intensity of magnetic field: 80 Gauss (8mT)
Operating voltage: 230V/50-60 Hz
Size: 193x138x193 mm
Weight: 1 kg
Safety class: II BF - Norms: EN60601-1 (CEI)
SMART TENS - EMS

- **28355 SMART TENS**
  TENS is a therapeutic technique mainly used for analgesic purposes in physiotherapy. Suitable for a wide variety of pain therapies: acute or chronic pain, muscular pain, post-operative pain and also pains caused by pregnancy. It's usually divided according to its action mechanism in tens conventional, tens endorphinic, tens sequential, tens maximum value, tens Burst.
  EMS is a stimulating technique activating muscular contractions through electrical impulses. As in TENS stimulation, impulses are applied to patient through electrodes placed next to the muscles to be treated.
  In physiotherapy EMS is used for post-trauma and post-operative muscular rehabilitation and also as a complementary aid in sports activity and aesthetic treatments.
  Basic programmes used in TENS treatments together with EMS classic protocols are combined in this product. SMART TENS offers a wide possibility to treat acute and chronic pains (TENS) and muscular strengthening and stimulation (EMS).
  Supplied with 2 connection cables for electrodes, 4 pre-gelled electrodes, belt clip, 4xAAA size batteries, user manual (GB, FR, IT, DE, ES) in a carrying bag.

MIO-CARE - 2 CHANNEL TENS

- **28370 MIO-CARE TENS** - 20 medical programmes
- **28376 MIO CARE FITNESS** - 55 programmes (20 medical + 15 beauty + 20 fitness programmes)
  - 2 independent channels stimulator
  - compensated biphasic square wave: avoids hazardous thermic effect of polarization
  - easy to use, digital keyboard
  - remaining therapy time and programmes instruction shown on graphic display
  - internal rechargeable battery pack
  - maximum intensity 200 mA
  - compliance with 93/42/EEC MDD
  - size: 68x110x31 mm   - weight: 85 g (without batteries)
  - 6 TENS stored programmes  - 1 TENS free programme
  - 1 TENS endorphinic
  - Tens Burst
  - combined electrotherapy unit with 2 independent channels
  - compensated biphasic square wave: current quantity from positive pole to negative one is constant to avoid hazardous thermal effect of polarization
  - combined electrotherapy unit with 2 independent channels
  - maximum intensity 200 mA
  - compliance with 93/42/EEC MDD
  - supplied in a carrying bag with 2 connection cables, with splitters, 5 language user manual (GB, FR, IT, DE, ES), 8 adhesive pads, internal rechargeable battery with battery charger.

DISPOSABLE GELLED ELECTRODES FOR ELECTROTHERAPY

- **28351**
- **28372**
- **28373**
- **28384**

**DISPOSABLE GELLED ELECTRODES WITH CABLE** - latex free
High material flexibility allows easy application of electrodes on treated areas. Solid gel maintains the electrode adhesion and conductivity unchanged during procedure. The electrodes are equipped with 10 cm long cable, with 2 mm socket.

- **28384 GELLED ELECTRODES** with cable 45x35 mm - bag of 4
- **28351 GELLED ELECTRODES** with cable 40x40 mm - bag of 4
- **28372 GELLED ELECTRODES** with cable 46x47 mm - bag of 4
- **28373 GELLED ELECTRODES** with cable 45x80 mm - bag of 4

**DISPOSABLE GELLED ELECTRODES AND ADAPTORS** - latex free
High material flexibility allows easy application of electrodes on treated areas. Solid gel maintains the electrode adhesion and conductivity unchanged during procedure.

- **28387 GELLED ELECTRODES** 45x35 mm - bag of 4
- **28388 GELLED ELECTRODES** 46x47 mm - bag of 4
- **28317 GELLED ELECTRODES** 45x80 mm - bag of 4
- **28390 2 mm CLIP ADAPTORS** - black - box of 10
- **28391 2 mm CLIP ADAPTORS** - red - box of 10
- **28392 4 mm CLIP ADAPTORS** - black - box of 10
- **28393 4 mm CLIP ADAPTORS** - red - box of 10
**I-TECH PHYSIO PROFESSIONAL 2 CHANNELS STIMULATOR**

- 28382 I-TECH PHYSIO PROFESSIONAL STIMULATOR
  Professional stimulator with 2 independent channels
  - compensated biphasic square wave
  - monophasic square wave
  - incontinence and ionophoresis programmes
  - denervated treatment
  - programmable TENS - EMS memories
  - adjustable frequency, width impulse, time, ramp
  - remaining therapy time and programmes instructions shown on the LCD
  - internal rechargeable battery pack (removable)
  - maximum intensity 200 mApp:
  - 28381 IONOPHORESIS KIT (2 silicone conductive electrodes, 2 sponges, 1 elastic belt)
  - 28372 GELLED ELECTRODES 46x47 mm - bag of 4
  - 28373 GELLED ELECTRODES 48x80 mm - bag of 4

**MIO IONOTENS, 2 CHANNELS**

- 28380 MIO-IONOTENS 37 programmes
  New 2 channel stimulator for the customers who need an easy to use device with high output power and a complete list of TENS programmes, rehabilitation programmes and free memories. Portable and easy to use device with backlit display and digital keyboard. It is equipped with internal rechargeable battery (long-lasting) and belt clip. MIO-IONOTENS has 14 TENS programmes, 10 rehabilitation programmes including 3 ionophoresis treatments and 13 free memories (adjustable frequency, width impulse and time). Supplied in a carrying bag, with 2 cables, ionophoresis kit, 1 set of 4 pre-gelled electrodes (41x41 mm), 1 set of 4 pre-gelled electrodes (40x80 mm), belt clip, internal rechargeable battery, battery charger, user manual (GB, FR, IT, ES).

- 28381 IONOPHORESIS KIT (2 silicone conductive electrodes, 2 sponges)

**MIO-VEIN - CALF STIMULATOR**

- 28378 MIO-VEIN CALF STIMULATOR
  2 channels FES device (Functional Electrical Stimulation) to stimulate calf muscles and help the correct venous circulation. Its stimulation reactivates calf muscular pump that is mainly responsible of venous return. Calf muscles contraction promotes the compression of superficial and deep veins. As a consequence blood reaches the heart more easily. Mio-Vein can be used not only to help the natural blood flow but also to prevent venous insufficiency and deep vein thrombosis. Moreover it can be used in presence of lower limb edemas, venous ulcers and venous diseases. It is an important support to compressive stocking therapy and finally to venous stasis treatment.

  Main features:
  - two independent channels for the connection of 4 electrodes
  - easy to use digital keyboard
  - adjustable intensity
  - on-line guide on display for fast instructions
  - reflective LCD display
  - FES specific programme for venous stimulation
  - operating with internal rechargeable battery
  - 60 mA maximum intensity
  - width impulse 30-240 μs
  - Dimensions: 114x68x26 mm
  - Supplied with 2 connections cables, 4 oval electrodes for calf, belt clip, Ni-Mh rechargeable battery, battery charger, user manual (GB, FR, IT, ES), carrying bag.

- 28379 OVAL ELECTRODES - set of 2 - 130x76 mm

**WIRELESS MINITENS**

- 28345 MINITENS - pain-relieving patch
- 28346 SPARE PATCH ELECTRODE 62x53 mm

A new innovative concept: simple, effective and always available. First electronic pain-relieving patch resulting from combination of modern cellular electrophysiological knowledge and an ancient physical technique: acupuncture. A powerful microprocessor and a performant stimulation programme allows:

  - recovery of electrical exchanges on either side of the cellular membrane and of block of the pain sensation conveyance to the brain
  - relax and boost of the activity of nerves, muscles, tendons and joints.
  - The form of the electrical stimulations is physiological, it relieves pain quickly, deeply and naturally.

**Supplied a carrying bag with:**
- rechargeable battery and battery charger
- 1 set of 4 pre-gelled electrodes 48x48 mm
- 1 set of 4 pre-gelled electrodes 50x50 mm
- 2 silicon conductive electrodes 60x90 mm
- 2 sponges 70x100 mm
- 1 elastic belt for electrodes fastening
- 2 cables, 2 mm connection male plug
- 4 cable splitter 2 mm male and female plug

**User manual (GB, IT, ES)**

**PROGRAMMES:**
- 20 NEMS
- 14 TENS
- 15 BEAUTY
- 9 UROLOGY
- 27 REHABILITATION
- 13 FREE MEMORIES
ELECTRICAL DEVICES

INFRARED THERAPY LAMP - 250 W

- 28653 INFRARED THERAPY LAMP - 250 W - trolley
- 28654 SPARE BULB - 250 W

The infrared light effectively relieves the suffering caused by sore muscles and joints ankylosis. The comfortable warmth created by infrared light penetrates deep into the skin, stimulates blood circulation and warms the muscles. While the muscles are relieved, they automatically stretch and relax.

At the same time, the blood circulation helps your body get rid of impurities and quickly sends oxygen-rich blood to stressed or aching muscles, causing an effective pain relief.

INFRAREX: THERAPEUTIC HEATING DEVICE

- 28650 INFRAREX 230 V - 50/60 Hz
- 28651 SPARE BULB 7.5 W

Infrarex is a modern scientifically electronic therapeutic heating device which provides deep, infrared heat that can penetrate far below the surface of the skin to produce a shooting, comforting effect upon the nerves. It relieves muscular tension, reduce inflammation and provides pain relief without medication for many conditions such as: arthritis, bursitis, sinusitis, tennis elbow, back ache, neuralgia, muscular pains, aches, sprains, and other musculoskeletal aches.

Infrarex provides pain relief without medication, you will experience pain relief within 10-15 minutes. No concern for side effects, simple to be used.

ELECTRIC HEATING PAD

- 28655 ELECTRIC HEATING PAD Suitable for many applications.
- 28656 ELECTRIC "SAND" HEATING PAD

The use of purified marine sands make it possible to naturally transmit their beneficial warmth. Heating: 48-52°C (initial 30 minutes) 52-56°C first hour, up to 65°C following hours.

External cover in cotton (94%) and nylon, internal bag in PVC

Operating power: 230 V - 50/60 Hz - 75 W (28656) - 55 W (28655)

ACCESSORIES FOR ANY BRAND OF NEBULIZER

Gima offers different nebulizer bulbs with their line of accessories, suitable for any brand of nebulizer.

ACCESSORIES FOR NEBULIZER

Fasterjet bulb with Valve System
A new designed Jet Nebulizer capable of delivering any medication in a very short time with a high amount of respirable particles. The Valve System makes therapy extremely efficient by reducing the amount of wasted medication while optimizing the output to the patient.

TECHNICAL SPECIFICATIONS FASTERJET
Capacity: 16 ml Neb rate: 0.60 ml/min
Respirable volume: <5 μm 80%
Residual volume: 0.8 ml
MMAD (Mass Median Aerodynamic Diameter): 2.7 μm

Fasterjet bulb: For delivering any medication in a very short time

NEBULIZER ACCESSORIES

<table>
<thead>
<tr>
<th>GIMA code</th>
<th>NEBULIZER ACCESSORIES</th>
<th>To be used with</th>
</tr>
</thead>
<tbody>
<tr>
<td>28163</td>
<td>Fasterjet bulb*</td>
<td>all nebulizers</td>
</tr>
<tr>
<td></td>
<td>with Valve System</td>
<td></td>
</tr>
<tr>
<td>28164</td>
<td>Nebjet bulb **</td>
<td>all nebulizers</td>
</tr>
<tr>
<td></td>
<td>with Double Venturi Effect</td>
<td></td>
</tr>
<tr>
<td>28165</td>
<td>Mouthpiece bi-valve</td>
<td>bulb 28163, 28164</td>
</tr>
<tr>
<td>28166</td>
<td>Mouthpiece</td>
<td>bulb 28164, 28165</td>
</tr>
<tr>
<td>28167</td>
<td>Nasal Prong</td>
<td>bulb 28164, 28165, 28163</td>
</tr>
<tr>
<td>28168</td>
<td>Facemask-adult***</td>
<td>bulb 28164, 28165, 28163</td>
</tr>
<tr>
<td>28169</td>
<td>Facemask-pediatry****</td>
<td>bulb 28164, 28165, 28163</td>
</tr>
<tr>
<td>28195</td>
<td>Hydrofobic, 99%antibacteric filter</td>
<td>28130/1/2/3/4/5</td>
</tr>
</tbody>
</table>

* With elastic

GIMA code NEBULIZER ACCESSORIES To be used with

28163 Fasterjet bulb* with Valve System all nebulizers
28164 Nebjet bulb ** with Double Venturi Effect all nebulizers
28165 Mouthpiece bi-valve bulb 28163, 28164
28166 Mouthpiece bulb 28164, 28165
28167 Nasal Prong bulb 28164, 28165, 28163
28168 Facemask-adult*** bulb 28164, 28165, 28163
28169 Facemask-pediatry**** bulb 28164, 28165, 28163
28195 Hydrofobic, 99%antibacteric filter 28130/1/2/3/4/5

* Standard with Happyneb II, Hospyneb
** Standard with Happyneb I, III, Betaneb
*** Without elastic
**FAMILY AND PINGOO ULTRASONIC NEBULIZERS**

**ULTRASONIC NEBULIZERS**
Thanks to the innovative electronic technologies these easy-to-use ultrasonic nebulizers provide a quiet, fast and portable operation with optimal particle size.

**Portable**: small and lightweight, it allows patients to perform treatments anytime and anywhere.

**Optimal particle size**: particle size determines the extent to which the medication can be inhaled by the patient into the deep lung tissue. Approx 90% of particles generated by Family or Pingoo have the optimal 1-5 μ (microns) size.

**Fast treatment**: with its high-efficiency design, it allows a quick treatment time, most within 6 minutes, with limited power consumption.

**Low noise level**: treatments are not only fast but are virtually silent due to its advanced ultrasonic technology.

8 languages user manual: English, French, German, Italian, Spanish, Portuguese, Greek and Arabic.

<table>
<thead>
<tr>
<th>GIMA Code</th>
<th>ULTRASONIC NEBULIZERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>28106</td>
<td>Family ultrasonic nebulizer</td>
</tr>
<tr>
<td>28117</td>
<td>Pingoo ultrasonic nebulizer</td>
</tr>
<tr>
<td>28113</td>
<td>Re-chargeable battery Ni Cd 12 VDC - Family</td>
</tr>
<tr>
<td>28115</td>
<td>Re-chargeable battery Ni Cd 12 VDC - Pingoo</td>
</tr>
<tr>
<td>28114</td>
<td>Spare Kit: includes adult and paediatric facemask, nasal prong, mouthpiece and tube</td>
</tr>
<tr>
<td>28121</td>
<td>Medication cups Family (box of 15 pcs.)</td>
</tr>
<tr>
<td>28122</td>
<td>Medication cups Pingoo (box of 15 pcs.)</td>
</tr>
</tbody>
</table>

**TECHNICAL SPECIFICATIONS**

- **Operating voltage**: 220-240 V 50/60 Hz  Power: 10 W
- **Ultrasonic frequency**: 2.5 MHz
- **Nebulization time**: 0.2-0.7 ml/min depending on medication density
- **Medication cups capacity**: max 8 ml Family, max 4.5 ml Pingoo
- **Automatic switch-off**
- **Particle size**: 5 μ (microns) average
- **Three programmable flow levels**
- **Noise level**: <40 dB

**STANDARD ACCESSORIES**

- Adult facemask (only Family)
- Pediatric facemask
- Nasal prong, Mouthpiece
- Connection tube
- Medication cups
- Transformer (220-240V-12V DC)
- Carrying bag
- User manual

**POCKET ULTRASONIC NEB**

- **28080 POCKET ULTRASONIC NEBULIZER**
- **28081 MEDICINE CUPS - box of 50**
- **28082 RESPIRATORY ACCESSORY KIT (adult and pediatric mask, mouthpiece, flex tube)**

Small, handy, light weight, portable nebulizer, that can operate with standard AA batteries (conventional or rechargeable) instead of expensive dedicated rechargeable batteries or AC adaptor 100-240 V. Two adjustable nebulization rate. Provides optimal treatment for all kinds of medication with different density. Supplied in a nylon carrying bag with AC adapter adult and child mask, mouthpiece 10 medicine cups, and transformer.

**TECHNICAL SPECIFICATIONS**

- Operating voltage: DC 6 V (4xAA alkaline batteries)
- AC adaptor: input: 100-240 V - 50/60 Hz  ACOoutput: 12 V / 700 mAh
- Rechargeable battery: 4xAA NiMH rechargeable batteries / 2000 mAh (90 minutes)
- Ultrasonic Frequency: 2.5 mHz
- Medication cups capacity: ≤ 6 ml
- Nebulization rate: 2 speed adjustable
  - 1st level - 0.3 ml/min - 2nd level - 0.5 ml/min
- Particle size: 3-5 μ (microns)
- Treatment time: 5-6 min (2-3 ml)
- Sound level: ≤ 50 db

**HOMECARE ULTRASONIC NEB**

- **28085 HOMECARE ULTRASONIC NEBULIZER**
- **28086 MEDICINE CUPS - box of 50**
- **28082 RESPIRATORY ACCESSORY KIT (adult and pediatric mask, mouthpiece, flex tube)**

Desktop ultrasonic nebulizer for homecare. Supplied with flexible nose, adult and child mask, mouthpiece and 10 medicine cups.

- **3-speed nebulization rate control** - provides optimal treatment for all kinds of medication with different density.
- **Specialized design** - with swivel air outlet to suit all kinds of treatment.

**TECHNICAL SPECIFICATIONS**

- Operating voltage: 230 V 50 Hz
- Power consumption: ≤30 VA
- Medication cups capacity: ≤10 ml
- Nebulization rate: 3 speed adjustable
  - 0.3-0.6 ml/min
  - 0.6-0.9 ml/min
  - 0.9-1.2 ml/min
- Particle size: 3-5 μ (microns)
- Ultrasonic frequency: 2.5 Mhz-100Khz
- Size: 220x110x205 mm - 1.3 Kg
NEBULIZERS FOR DOMESTIC USE

• 28130 HAPPYNEB I NEBULIZER - diaphragm 230V
• 28132 HAPPYNEB II NEBULIZER - piston 230V-Faster-Jet
• 28135 HAPPYNEB III NEBULIZER - piston 230V

Happyneb new stylish and portable nebulizer for a quick and efficacious aerosol therapy.
Three versions available.
With piston (with or without Faster-Jet bulb) or membrane compressor.
Italian innovative shape and design
Reliable, practical and safe.
Noiseless and lubrication free.
Unit includes an air filter to be replaced every 70 applications, and handle for easy carrying.
It is built in accordance with European Standard EN 60601-1.
5 languages box and manuals.
Available in English, French, German, Italian, Spanish
• 28145 FILTER - spare

STANDARD ACCESSORIES

28130 HAPPYNEB I 28132 HAPPYNEB II 28135 HAPPYNEB III

Adult face mask: 1 1 1
Pediatry face mask: - 1 1
Fasterjet bulb: - 1 -
Nebjet bulb: 1 - 1
Mouthpiece: 1 1 1
Nasal prong: 1 1 1
Connection tubing: 1 1 1

EOLO NEBULIZER - PISTON

• 28097 EOLO NEBULIZER - piston
• 28091 EOLO NEBULIZER - piston - UK plug
Innovative, portable, easy to use nebulizer for home use, recommended to nebulize antibiotics and bronchodilator drugs.
Plastic body with high thermal insulation. Supplied with adult and pediatric face mask, bulb, mouthpiece, air tubing and air filter. Made in Italy.
• 28095 FILTER - box of 20 pcs.

MISTRAL NEBULIZER - PISTON

• 28102 MISTRAL NEBULIZER - piston
Compact portable nebulizer for home use.
Duty cycle: 20 min on / 40 min off
Supplied with Hi Flo bulb, adult and pediatric mask with string, mouthpiece, nosepiece, air tubing and 2 pair filters.
• 28088 FILTER - box of 20

TECHNICAL SPECIFICATIONS

Compressor: diaphragm - membrane piston piston
Voltage: 230V/50 Hz 230V/50 Hz 230V/50 Hz
Fuse: T500 mA/250V T1,6 A / 250V T1,6 A / 250V
Operating pressure: 0.70 bar 1.1 bar 0.90 bar
Air flow: 8 l/min 15 l/min 14 l/min
Dimensions: 31x22x13 cm 31x22x13 cm 31x22x13 cm
Weight: 2.3 kg 2.3 kg 2 kg
Noise level 58 db 56 db
Temporary use: 30/30 min ON/OFF Continuous use 30/30 min ON/OFF
Class of risk IIa
Norms: Class II, Type B Class II, Type B Class II, Type B
Origin: Italy Italy Italy

EOLO NEBULIZER - PISTON

28097

TECHNICAL SPECIFICATIONS

Operating voltage: 230V - 50/60Hz - 170VA 230V/50 Hz - 170VA
Operating pressure: 1.1 bar 1.1 bar
Air flow: 14 l/min 14 l/min
Nebulization rate 0.4 ml/min 0.35 ml/min
Particle size < 5 μm < 5 μm
Max Pressure: 2.5 bar 2.5 bar
Dimensions: 22x14.5x12 cm - 1.7 kg 13x8.9x14.6 cm - 1.5 kg
Noise level (EN 13544-1) 55 db 60 db
Class of risk IIa IIa
Norms: Class II, Type B Class II, Type B
Origin: Italy Italy
NEBULIZERS FOR PROFESSIONAL AND HOSPITAL USE

PROFESSIONAL NEBULIZERS
Piston compressor nebulizers for professional and home care use. They embody all the dictates of modern aerosol therapy techniques. Reliable and simple to use, also by inexperienced users. Manual: GB, FR, IT, DE, ES. Made in Italy.

GIMA code | PROFESSIONAL NEBULIZER | Voltage
---|---|---
28134 | HOSPIWEB PROFESSIONAL | 230 V - 50 Hz
28136 | HOSPIWEB PROFESSIONAL | 230 V - 60 Hz
28137 | HOSPIWEB PROFESSIONAL | 110 V - 60 Hz
28090 | COMP - A NEB PROFESSIONAL | 230 V - 50 Hz
28089 | NASALJET | -
28145 | FILTER - spare

• 28105 CORSIA PROFESSIONAL NEBULIZER - piston
• 28092 CORSIA PROFESSIONAL NEBULIZER - piston - without manometer

Atomizer 2 speeds, piston nebulizer for family use. With accessory compartment separated from cord compartment for improved hygiene. Made in Italy.

• 28094 ATOMIZER NEBULIZER - 2 speeds
• 28093 FILTER - spare - box of 3

TECHNICAL SPECIFICATIONS
Operating voltage: 220-230 V - 50/60 Hz
Power consumption: 184 VA
Max pressure: 250 kPa (2.5 bar)
Air flow: 16 l/min
Operating pressure: 130 kPa (1.30 bar)
Weight: 2.6 kg
Noise: 60 dBA

Hi-Flo Jet bulb
Mouthpiece
Adult and child mask
Air tube and air filter
**MEDICAL GRADE SILICONE TUBES FOR EXTERNAL USE**

SILICONE TUBES for external medical use - silicone 100%
Suitable for autoclaving (135°C - 2.2-2.5 bar) and Gamma Sterilization. Resistant to hot air up to 200°C. Infra-red vulcanization.

Hours treatment at 200°C temperature in special oven.
Anti-adherent, avoid incrustation and coagulation.

Medical Grade - Transparent - Odourless

### TECHNICAL SPECIFICATIONS

- **Raw material:** HTV-R-401/60 E - WACKER (D)
- **Colour:** translucent
- **Hardness:** 60° +/-5% Shore - DIN 53505
- **Density:** 1.17 g/ccm - DIN 53479A
- **Tensility:** 10.8 N/mm² - DIN 53504 S1
- **Stretch:** 490/530% - DIN 53504S1
- **Tear resistance:** 34-35 N/mm - ASTM D 624 B
- **Reverse pull elasticity:** 51% - DIN 53512
- **Compression set:** (22h/175°C): 30-15% - DIN 53517

Made in European Union according to:
- US PHARMACOPEA XXI
- EUROPEAN PHARMACOPEA DIN 58367 - DIN 58362 - DIN 13098 - FDA 177.2600 - BGA XV part A and B - BGA IX part B

**MADE TO ORDER SILICONE TUBES**
We can manufacture any size (minimum order 500 m - delivery 30 days)

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**HUMIDIFIER**

It conforms to all European norms on safety: double insulated tank, safety to avoid tank opening while working.

- **28123 PHOBOS HUMIDIFIER**
  Ideal against dry air produced into overheated rooms. Easy check of water level and automatic shut off when water falls below minimum level. Easy to clean. Steam regulation. It is recommended for a room of 60 m³.

### TECHNICAL SPECIFICATIONS

- **Capacity:** 3.5 litres.
- **Autonomy:** approx 17 hours
- **Operating voltage:** 230V-50 Hz
- **Protection fuse.** Made in Italy

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**HUMI-ROUND**

Automatic, non-Stop
360° Rotation of mist outlet

- **28118 HUMI-ROUND - ultrasonic humidifier**
  Ultrasonic humidifier used in home-care to increase humidity levels in dry environments. It protects against mucous membranes irritation and prevents skin, throat and lips dryness.

### TECHNICAL SPECIFICATIONS

- **Power feeding:** AC 220-240V / 50Hz
- **Rated Power:** 35 W
- **Max mist output:** 250 ml/h
- **Water Tank capacity:** 3.4 l
- **Suitable for room size:** min 10, max 20 m²
- **Max operating hours (non-stop):** 10 hours
- **Size (individual box):** cm 27.3x26.5x34.3
- **Weight (without water):** 2.9 kg

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**VAPINAL INHALER**

- **28110 VAPINAL THERMAL WATER INHALER**
  Warm jet mineral water inhaler ideal for home spring water inhalation treatment. It delivers hot humid steam through a nozzle working with the Venturi system and mixing the steam with the principles of thermal water. Equipped with stainless steel boiler working with resistance at 230V-50 Hz. Supplied with polycarbonate ampulla. Made in Italy.

- **28112 VAPINAL AMPULLA - spare part**

### TECHNICAL SPECIFICATIONS

- **Capacity:** 800 ml
- **Steam boiler in stainless steel
- **Security valve and thermostat**
- **Operating voltage:** 230 V - 50 Hz - 600 Watt
- **Heating time:** 5-8 min
- **Inhalation time (for 1 l):** 12-15 min
**RES-Q-VAC FILTERED HAND SUCTION**

*28124 RES-Q-VAC (FILTERED) SUCTION*

This lightweight and hand held suction unit requires no batteries or electricity and yet provides powerful suction whenever and wherever you need it. It offers ultimate safety and ease of use for the professional and fits easily into any emergency bag or ambulance.

Key Features:
- portable Hand Powered Suction - one hand operation
- hospital suction level performance >600mmHg
- always ready to go, no set up required, no batteries to recharge
- patented 0.22 equivalent micron filter for ultimate infection control
- full stop protection filter prevent fluid overflow
- easy snap on replacement canister sets with Adult and Child catheters
- each unit 100% tested for reliability

Kit includes: Res-q-Vac pump, canister 300 ml with filter, soft cannula Ø 12.7 mm x 20.3 cm length
- **28128 SPARE ADULT KIT** - with filter
  Includes canister 300 ml and wide soft adult style yankauer. Disposable.
- **28129 SPARE PEDIATRIC KIT** - with filter
  Includes canister 300 ml and 2 pediatric catheters with different length: 356 mm for paediatric and 88.9 mm for neonatal applications. Disposable.

**TECHNICAL SPECIFICATIONS**

- **Weight:** 143 g
- **Size:** 114x180x55 mm
- **Max vacuum:** > 600 mmHg
- **Min. vacuum after 2 activations:** > 400 mmHg
- **Volume per stroke:** 30 ml
- **Capacity before full:** 290 ml
- **Inner Ø of adult catheter:** 9.53 mm
- **Length of adult catheter:** 272 mm

Pump is suitable for cold or ETO sterilization.

**HAND/Foot/KNEE SUCTION PUMP**

- **28220 TOBI MANUALE** - manual suction aspirator

Independent of any power source, Tobi Manuale is simple to operate pressing pedal by foot, hand or knee. It is used to clear patient’s Airways safely and efficiently, anytime, anywhere. Precision and solidly built to assure long service life. Polycarbonate suction bottle with capacity 400 cc, autoclavable at 120°C and spill-over protection. Bacterial filter included.

- **28219 BOTTLE 0.4 l**
- **28229 HYDROPHOBIC ANTI-BACTERIAL FILTER**

**TECHNICAL SPECIFICATIONS**

- **Weight:** 1.2 kg
- **Size:** 225x165x85 mm
- **Max suction:** -0.40 bar
- **Suction power:** 22 l/min
- **Bottle capacity:** 400 cc
- **Made in Italy**

**HAND SUCTION PUMP**

- **28180 HAND SUCTION UNIT**

Designed to provide quick and effective pharyngeal and tracheal suction for emergency use. The adjustable stroke knob provides different suction pressure. Supplied with 250 ml bottle and 2 sterile adult cannulas 26 and 40 cm
- **28181 SPARE ADULT KIT**
  Includes 250 ml bottle and 2 sterile adult cannulas 26 and 40 cm.

**TECHNICAL SPECIFICATIONS**

- **Max suction -0.45 bar**
- **Suction power:** 22 l/min
- **Bottle capacity:** 400 cc
- **Made in Italy**

**BREAST PUMP - MAMILAT GIMA**

- **28148 MAMILAT - BREAST PUMP - 230V-50Hz**

Easily transportable from one maternity ward to another, or for use at home. To be used for mother’s milk suction. Made of highly heat-resistant, electrically insulated plastic material in conformity with the latest European safety standards. Supplied with 2 polycarbonate milk bottles (150 cc and 250 cc) antibacterial and hydrofobic filter, set of tubes 6x10 mm, breast shield, PVC air tube. Suction adjustment knob. Working time: 20 minutes ON, 40 minutes OFF.

- **28149 SPARE KIT**
  Includes two plastic bottles (125 cc and 250 cc) nipple shield, filter and tubes.
- **28229 HYDROPHOBIC ANTI-BACTERIAL FILTER**

**TECHNICAL SPECIFICATIONS**

- **Regulator for suction intensity - max suction:** -0.33 bar
- **Operating voltage:** 220-230 V - 50/60 Hz - available on request 110 V - 60 Hz
- **Max flow (air litres/min):** 14 l/min
- **Power consumption:** 184 VA
- **Size:** 235x190x165 mm
- **Weight:** 2.2 kg
- **Norms:** CEI 62-5 (IEC601-1), Made in Italy

5 languages manual: Italian, English, Spanish, French, German.
MINIASPEED BATTERY EVO PROFESSIONAL SUCTION ASPIRATORS

- 28282 MINIASPEED EVO BATTERY SUCTION - 1 l
- 28283 MINIASPEED EVO BATTERY SUCTION - 1 l for ambulance
- 28284 MINIASPEED EVO BATTERY SUCTION - 2 l

Professional portable high flow - high vacuum aspirators with integrated rechargeable batteries. It works at 12 V power supply with rechargeable batteries or directly by mains supply, continuously at 110-230 V while recharging batteries. Up to 45 minutes of autonomy with fully charged battery. Made in Italy.

- 25480 SILICONE TUBE 6x12 mm - roll of 30 m
- 28254 ADAPTER FOR CATHETER
- 28255 HYDROPHOBIC 99% BACTERIAL FILTER
- 28258 AUTOCLAVABLE JAR 1000 ml (with cover)
- 28259 DISPOSABLE SUCTION LINER
- 28294 AUTOCLAVABLE JAR 2,000 ml (with cover)

TECHNICAL SPECIFICATIONS

- Operating voltage: with battery DC 12 V
- with power supply 100÷240 V ~ 50/60 Hz - 14 VDC 4,28A
- Power consumption: max 50 W
- Size: 134x378xh 263 mm  Weight: 4.7 kg (5 kg version for ambulance)
- Bottle capacity: 1,000 or 2,000 ml
- Flow: 30 air litres/min
- Sound level: 65 dBA at 1 m
- Operating cycles: continuous (45 minutes battery autonomy)
- MAX vacuum: 0 ± 85 kPa
- Internal battery: 12 VDC 4A h lead hermetic
- Battery autonomy: about 45 minutes, recharging time approx 6 hours
- Norms: MDD 93/42/EEC (Class lIa - annex IX)
- EN60601-1(IEC 60601-1) / EN60601-1-2 (IEC 60601-1-2)
- UNI EN ISO 10079-1/ UNI CEI EN ISO 14971
- Degree of protections against ingress of liquids: IP34d (IEC 529)
- Class II- Type B

STANDARD ACCESSORIES

- Autoclavable 1 or 2 l jar with safety valve
- Power supply cord - 2 m
- Shoulder carrying bag (28283 only)
- Sterile disposable cannula CH14
- Multivoltage battery charger
- Silicone tubing set Ø 6x12 mm
- Support bracket for ambulance (28283 only)
- User manual: GB, IT, FR, DE, ES

- 28260 SILICONE VACUUM SUCTION - AUTOCLAVABLE
  - Silicone vacuum suction Ø 60x210 mm
  - Silicone vacuum suction Ø 70x210 mm

SUPER VEGA BATTERY SUCTION ASPIRATOR ON TROLLEY

- 28193 SUPER VEGA BATTERY on trolley - suction 2x2 l

Portable suction unit for the aspiration of body liquids, oral and tracheal aspiration in adults or children. For professional use and with a powerful aspiration of max 36 l/min. It comes with double collection jars and on a stand with five castors for easy transport.

Two different working options: AC/DC adapter, rechargeable battery make it a versatile suction unit approved for NON-STOP operation without overheating.

Provided with visual and acoustic alarm indicating low battery level, vacuum-meter (bar & kPa) and vacuum regulator.

- 28247 SUCTION CATHETER-Sterile
  - Suction catheter CH 14 Ø 4.66 mm x 48 cm - green
  - Suction catheter CH 16 Ø 5.33 mm x 48 cm - orange
  - Suction catheter CH 18 Ø 6.0 mm x 48 cm - red
  - Suction catheter CH 20 Ø 6.6 mm x 48 cm - yellow

ACCESSORIES FOR ANY SUCTION ASPIRATOR

- 28260 STAINLESS STEEL ASPIRATION TUBE
  - S/5 Bierer Aspiration tube Ø 8 mm
  - S/5 Bierer Aspiration tube Ø 12 mm

Supplied with removable connection cannula

Set of 7 uterine aspiration cannulas for abortion: each set is composed of 4 cannulas with side suction end (Ø 5, 6, 8, 9 mm), 3 cannulas with front suction end (Ø 7,10,11 mm) and one handle
BATTERY SUCTION ASPIRATORS

• 28243 SUPER VEGA BATTERY - plastic case - 16 l/min.
• 28190 SUPER VEGA BATTERY - plastic case - 36 l/min.
• 28213 TROLLEY FOR SUPER VEGA
• 28242 BATTERY FOR SUPER VEGA/TOBI (28243/28240) - spare
• 28251 BATTERY FOR SUPER VEGA (28190) - spare

With incorporated rechargeable batteries. It can operate at 12 V power supply at rechargeable batteries and, thanks to an electronic system, at 230 V while recharging batteries.

Autonomy: approx 45-50 minutes. Recharging time: 120-150 minutes.

Max suction: -75 bar.

Suction power: 16 or 36 air litres/min

It has unbreakable 1,000 ml standard bottle (2,000 ml optional) autoclavable at 120°C with safety float control valve to prevent overflow.

TECHNICAL SPECIFICATIONS SUPER VEGA

- Operating Voltage: 220-230 V - 50/60 Hz AC - 12 V DC (28243)
- Size: 350x210x180 mm
- Weight: 4.9 kg
- Max suction: -0.75 bar
- Suction power: 16 air litres/min (28243), 36 air litres/min (28190)

Norms: IEC 601-1 - Class II Type B. Made in Italy

SUPER VEGA SUCTION ASPIRATOR ON TROLLEY

• 28191 SUPER VEGA on trolley - suction 2x2 l jar
• 28192 SUPER VEGA on trolley - suction 2x2 l jar with footswitch

Continuously adjustable vacuum, with indicator.

Silicone connection tube. 2 jars 2 litres, made of sterilizable polycarbonate (autoclavable at 120°C).

Working time: 120 min ON, 60 min. OFF.

Suction power: 40 air litres/min.

Steel painted frame, fitted with 5 star base.

Norms CEI 62-5 (IEC 601-1) - Class II - Type B

• 28239 HYDROPHOBIC 99% BACTERIAL FILTER
• 25482 SILICONE TUBE - 8x14 mm - roll of 30 m

TECHNICAL SPECIFICATIONS

Size: 32x30x90 h cm
Weight: 6.2 kg
Operating voltage: 220-230 V - 50/60 Hz; other on request
Power consumption: 110 VA
Maximum suction: -0.80 bar (600 mm Hg)
Flow: 40 air litres/minute
Temporary use: 120 on - 60 off
Norms CEI 62-5 (IEC 601-1) - CE 93/42 EEC
User manual (English, French, German, Italian, Spanish)
Made in Italy

STANDARD ACCESSORIES

Autoclavable jar 1000 cc
with safety valve
Silicone tubing set Ø 6x12 mm
Disposable suction liner
Sterile cannula

Anti-bacterial hydrophobic filter
Multivoltage battery charger
Cigarette lighter power cord.
Shoulder carrying bag
User manual (English and Italian)

SUPERVEGA SUCTION ASPIRATOR ON TROLLEY

• 28191 SUPER VEGA on trolley - suction 2x2 l jar

Silicone tubing 8x14 mm

Disposable suction liner inside autoclavable jar

See page 99
• VEGA SUCTION UNITS
A line of stylish, compact and reliable aspirators for small surgery. Silent, high flow and maintenance-free pumps allow long product life and durability. Recommended for nasal aspiration, oral aspiration, tracheal aspiration of body liquids (mucus, catarrh or blood) in adults or children. Equipped with vacuum regulator continuously adjustable, vacuum indicator, unbreakable 1,000 ml or 2,000 ml bottle, autoclavable at 121°C, with safety float control valve to prevent overflow. Optional bottle autoclavable at 134°C. Manufactured in electric and thermal insulated plastic body.

Autoclavable and disposable collection system: In addition to standard autoclavable jar is available a disposable collection system composed by a rigid reusable container and a polyethylene disposable liner with cover, hermetically sealed, and hydrophobic, antireflux, bacterial filter operating as an overflow valve.
PROFESSIONAL ASPIRATORS - HIGH VACUUM

ASPEED PROFESSIONAL SURGICAL ASPIRATORS
Piston-type continuous cycle electric aspirators give high performance and great durability. Equipped with a protective thermal cut-out relay. They require no maintenance or lubrication. A motor-protector cap totally prevents aspirated liquids or secretions from reaching and damaging the vacuum pump. Ideal for clinical use. Made in Italy.

<table>
<thead>
<tr>
<th>GIMA code</th>
<th>ASPEED ASPIRATORS</th>
<th>Power</th>
<th>Pump</th>
<th>Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>28244</td>
<td>Aspeed 15 l</td>
<td>230 V</td>
<td>single</td>
<td>metal</td>
</tr>
<tr>
<td>28245</td>
<td>Aspeed 22 l</td>
<td>230 V</td>
<td>double</td>
<td>metal</td>
</tr>
<tr>
<td>28246</td>
<td>Aspeed 22 l</td>
<td>110 V</td>
<td>double</td>
<td>metal</td>
</tr>
<tr>
<td>28280</td>
<td>Aspeed 2 15 l</td>
<td>230 V</td>
<td>single</td>
<td>plastic</td>
</tr>
<tr>
<td>28281</td>
<td>Aspeed 2 22 l</td>
<td>230 V</td>
<td>double</td>
<td>metal</td>
</tr>
</tbody>
</table>

STANDARD ACCESSORIES
Autoclavable policarbonate jar 1,000 cc with safety valve (overflow protection)
Disposable suction liner 1 l
99% Antibacterial hydrophobic filter
Sterile disposable cannula
Sterile manual flow regulator
Set of atoxic sterilizable silicone tubes
Power Cable
User Manual GB, FR, IT, DE, ES

TECHNICAL SPECIFICATIONS
Operating voltage:
ASPEED
28244 230 V-50 Hz
28245/6 110-60 Hz
ASPEED 2
28280 230 V-50Hz
28281 other voltage on request

GIMA code | ACCESSORIES AND SPARES FOR ASPEED
-----------|--------------------------------------------------
28255      | Hydrophobic 99% bacterial filter                  
28258      | Autoclavable jar 1l with cover - since 2007      
28259      | Disposable suction liner                          
25480      | Silicone tube 6x12 mm - roll of 30 m             
28254      | Adaptor to connect catheter to silicone tube      
28261      | Adaptor kit to use jar 1l (28258) with ASPEED manufactured before 2007

SUCTION ASPIRATORS HIGH VACUUM, LOW AND HIGH FLOW

• 28222 TOBI - suction aspirator
220-230 V - 50/60 Hz
• 28224 SUPER TOBI - suction aspirator
220-230 V - 50/60 Hz

Portable suction aspirators, ideal for tracheotomy and small surgery. Vacuum continuously adjustable with vacuum indicator. Have unbreakable 1,000 ml standard bottle (2,000 ml optional) autoclavable at 120°C with safety float control valve to prevent overflow. Silicone connection tube. ABS plastic case. Made in Italy.
HIGH VACUUM, HIGH FLOW HOSPITAL SUCTION ASPIRATOR

New innovative range of high vacuum, high flow aspirator ideal for hospitals. Pump piston type, lubrication and maintenance free. Supplied with hydrophobic 99% bacterial filter, vacuum gauge for control of vacuum and 2 autoclavable jars (2 or 4 litres) made in makrolon with 200/400 ml graduation and double security valve. Available on request 2 or 3 litre disposable liners. Range includes version with foot switch and flow direction regulator, 110 and 230 V.

TECHNICAL SPECIFICATIONS

- Operating voltage: 110 V or 230 V - 50/60 Hz. Available on request 110-60 Hz
- Maximum suction: 0.90 bar (675 mm/Hg) - 0.90 bar (675 mm/Hg
- Flow: 90 l/min - 60 l/min
- Power: 300 VA - 230 VA

Size: 470x580x560 mm
Weight: 15 kg (60 l), 17 kg (90 l)

MDD class: Ila

MAXI ASPEED SURGICAL ASPIRATORS

Surgical aspirators for aspiration of body liquids in operating theatres and hospitals.

- Easy to carry
- Equipped with 4 antistatic wheels (2 with brake) and carrying telescopic handle.
- Developed to run continuously
- Made in highly heat resistant, electrically insulated plastic material in conformity with latest European safety standards.
- Vacuum regulator with BAR/PSI vacuometer and automatic flow direction regulator to easily switch from a jar to the other.
- Supplied with 2 autoclavable polycarbonate jars with safety valve (overflow protection), set of atoxic sterilizable silicone tubes, 99% antibacterial hydrophobic filters (2) and multilanguage manual (GB, FR, IT, DE, ES). Made in Italy.

MAXI ASPEED HIGH FLOW ASPIRATOR FOR HOSPITAL USE

MAXI ASPEED SURGICAL ASPIRATORS

Surgical aspirators for aspiration of body liquids in operating theatres and hospitals.

- Easy to carry
- Equipped with 4 antistatic wheels (2 with brake) and carrying telescopic handle.
- Developed to run continuously
- Made in highly heat resistant, electrically insulated plastic material in conformity with latest European safety standards.
- Vacuum regulator with BAR/PSI vacuometer and automatic flow direction regulator to easily switch from a jar to the other.
- Supplied with 2 autoclavable polycarbonate jars with safety valve (overflow protection), set of atoxic sterilizable silicone tubes, 99% antibacterial hydrophobic filters (2) and multilanguage manual (GB, FR, IT, DE, ES). Made in Italy.

TECHNICAL SPECIFICATIONS

- Operating voltage: 230 V - 50/60 Hz. Available on request 110-60 Hz
- Air flow: 60 or 90 l/min
- Operating cycle: continuous
- Adjustable vacuum level: 0-0.90 bar (0-90 kPa)
- Size: 460x850x420 mm
- Weight: 20 kg

GIMA code | CLINIC PLUS / HOSPI PLUS | Jar | Power | Foot switch | Flow direction regulator
--- | --- | --- | --- | --- | ---
28194 | CLINIC PLUS aspirator | 2x2 l | 220-230 V | - | -
28196 | CLINIC PLUS aspirator | 2x4 l | 220-230 V | - | -
28198 | CLINIC PLUS aspirator | 2x2 l | 220-230 V | yes | yes
28200 | HOSPI PLUS aspirator | 2x2 l | 220-230 V | - | -
28201 | HOSPI PLUS aspirator | 2x4 l | 220-230 V | - | -
28203 | HOSPI PLUS aspirator | 2x2 l | 220-230 V | yes | yes
28204 | HOSPI PLUS aspirator | 2x4 l | 220-230 V | yes | yes

ACCESSORIES

- Autoclavable jar 2 l with safety valve
- Autoclavable jar 4 l with safety valve
- Hydrophobic 99% antibacterial filter
- Silicone tube - 8x14 mm - roll of 30m
Ideal for hospital, these suction aspirators are manufactured in ABS. Four antistatic castors, two of which with brakes, to allow perfect mobility. Vacuum gauge for the control of vacuum (1 bar). 2 or 4 litre jar made of autoclavable makrolon, with 200/400 ml graduation. Each jar with double security valve. Pump piston type, lubrication and maintenance free. With ant bacterial filter. Available model with footswitch and other operating voltage (110 V). User manual in GB, FR, IT, ES, DE. Made in Italy.

**High Vacuum, High Flow Hospital Suction Aspirator**

### TECHNICAL SPECIFICATIONS

**Hospital (28202-28232/3/4/5)**
- **Size:** 55x45xh 65 cm
- **Weight:** 20 kg
- **Operating voltage:** 110 V or 230 V - 50/60 Hz
- **Maximum suction:** -0.90 bar (675 mm/Hg)
- **Flow:** 90 l/min
- **Norms:** CEI 62-5 (IEC 601-1)

**Clinic (28214/5/6, 28231)**
- **Size:** 46x42xh 60 cm
- **Weight:** 13 kg
- **Operating voltage:** 110 V or 230 V - 50/60 Hz
- **Maximum suction:** -0.90 bar (675 mm/Hg)
- **Flow:** 60 l/min
- **Norms:** CEI 62-5 (IEC 601-1)

### ACCESSORIES

- **Hydrophobic, 99% bacterial filter**
- **121°C autoclavable jar 2l with overflow system**
- **121°C autoclavable jar 4l with overflow system**
- **Cover 2l with overflow valve system**
- **Cover 4l with overflow valve system**
- **Vacuum indicator Ø 50 mm**
- **Vacuum indicator Ø 60 mm**
- **Bottom base**
- **Bottom base**
- **Silicone tube 8x14 - roll of 30 m**
- **Adapter to connect catheter to silicone tube**
- **Suction catheter see at page 132**
- **Vacuum indicator Ø 50 mm**
- **Vacuum indicator Ø 60 mm**

### GIMA code

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To be used with:

- **Hospital/Hospi Trolley**
- **Clinic/Supervia Trolley**
- **Clinic**
- **Hospital**
- **Hospitale Plus**