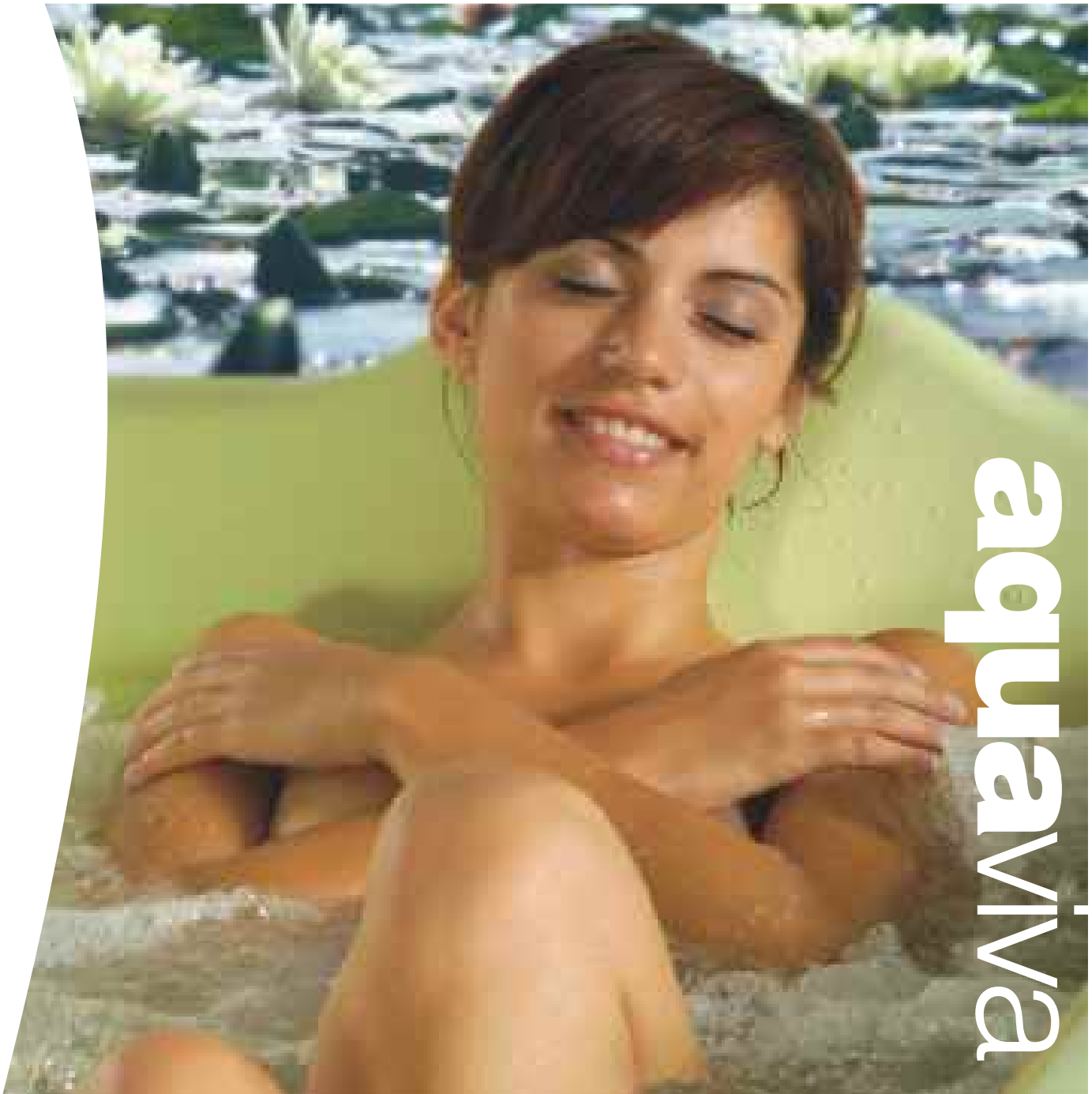


catalogue 2007



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## Introduction by the General Director

Chirana Progress production program continues long term tradition of manufacturing medical equipment in the town Piešťany. We want to maintain this good work and through our production and business activities, being aware of our responsibility towards present and future customers, want to contribute to the improvement of the quality of the life of the whole society.

Water is a medium which is transformed with the help of our equipment into various shapes to become so-called „living water“ Its beneficial influence is used to support health and vitality . Providing reliable and highly effective medical equipment which helps to restore men's health, together with positive influence on the customer by means of the modern, aesthetic and ergonomic design - is the mission of our company.

Fulfilment of this mission and further development can be done only by united effort of all our employees. That is why we are trying to build the feeling of being part of one corporation. We want all our employees to be proud of being members of our company and enjoy satisfaction of our customers.

Further condition of the company development is constant effort for quality improvement of our products and services. The proofs of this effort are the certificates of Quality management system. We put emphasise on quality from the very first moment of the company existence.

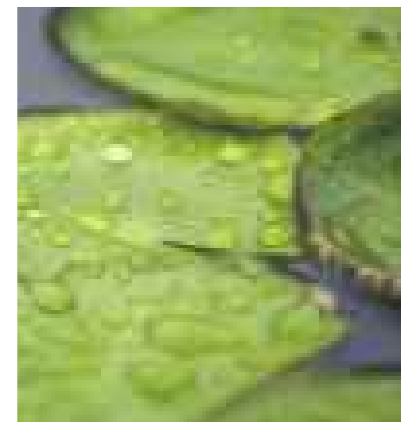
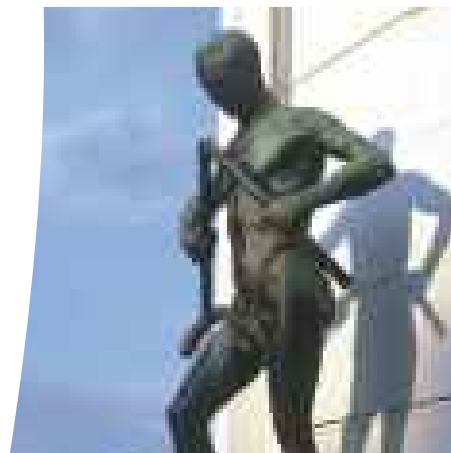
All the time we supported fair competition which we considered to be driving force of the company progress. Good and long-term relationships show our partners and society that they co-operate with reliable and respectable partner.

We aid and sponsor also other activities - sport, culture, healthcare, education. We are convinced that general favourable image of our company will bring possibilities for further growth of our company.

„I think that the correctness of our philosophy is confirmed by a steady growth of the sales of our products and services and a lot of new satisfied customers all over the world every year.“

**Ing. Igor Racík**

general director **CHIRANA**PROGRESS



- |   |                                      |                                      |
|---|--------------------------------------|--------------------------------------|
| 02 _ introduction by General Director         | 14 _ collection <b>ELECTRA</b>       | 24 _ collection <b>SALIJET</b>       |
| 03 _ <b>welcome</b> to our city               | 14 _ standard and optional equipment | 24 _ standard and optional equipment |
| 04 _ <b>the history</b> of Chirana            | 14 _ technical parameters            | 24 _ technical parameters            |
| 05 _ <b>present</b> and future of our company | 16 _ collection <b>NIAGARA</b>       | 26 _ collection <b>MASSAGE TABLE</b> |
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| 10 _ collection <b>HUBBARD BATH</b>           | 20 _ technical parameters            | 30 _ technical parameters            |
| 10 _ standard and optional equipment          | 22 _ collection <b>CORAL</b>         | 32 _ technical <b>PARAMETERS</b>     |
| 10 _ technical parameters                     | 22 _ standard and optional equipment | 33 _ technical <b>PARAMETERS</b>     |
| 12 _ collection <b>VOD 56</b>                 | 22 _ technical parameters            | 34 _ <b>CERTIFICATES</b>             |
| 12 _ standard and optional equipment          |                                      |                                      |
| 12 _ technical parameters                     |                                      |                                      |



The town Piešťany where Chirana Progress resides is situated in beautiful river Váh valley surrounded with Považský Inovec and Malé Karpaty hills. It is also the well known spa town. The first written record about Piešťany is from the year 1113 and the first document describing the thermal waters and spa „the most curative in Hungary“ is in book of Juraj Wernher „De admirandis Hungariae aquis hypomnemata“ „About miraculous waters of Hungary“ published in 1549 in Basel. Very specific microclimate of Piešťany with more than 2000 hours of the sunshine in a year, river Váh, close neighbourhood of Slávia lake and hills of Považský Inovec create unique place for recreation, relaxation and sport activities. Many cultural events complete the attractiveness of Piešťany. Piešťany is a so-called the „town of the health“ because of the sources of hot thermal water and curative mud which create base for providing treatment procedures in Health Spa Piešťany. From the point of view of balneotherapy Piešťany belongs to the top well known spas in the world and is dedicated mainly for the treatment of motoric disorders, neurologic and rheumatic diseases and after injuries difficulties. Thermal water has given birth to curative mud with its specific chemical composition which is unique in the world. Together with additional curative procedures such as underwater massages, electro therapy, magneto therapy, reflex and classic massages, Piešťany provides combined beneficial influence on men's health. The production of medical equipment has 45 year's tradition starting in Chirana Piešťany and continuing in Chirana Progress - manufacturer of hydrotherapy and electro therapy equipment, inhalators, paraffin bath tubs and massage benches and has a close connection to people's health.

We would like to invite you cordially to Piešťany and Chirana Progress, too.

welcome to our city

# Piešťany



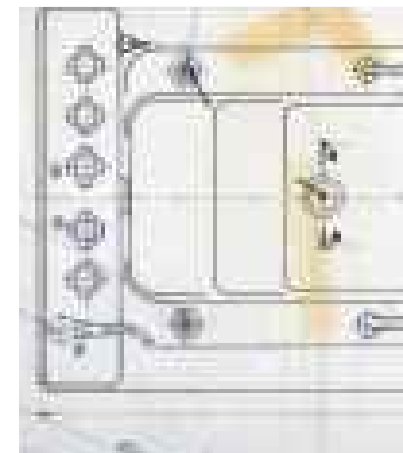
History of the medical equipment production in Piešťany started in 1960 by establishing construction department of Chirana Piešťany. This department main task was to prepare production program consisting of : laboratory exhausters, gynaecological and urological tables and ORL chairs.

In September 1962 new plant was opened and production range was widened by hydrotherapy equipment such as: Hauff bath tub, mobile underwater massage, izothermic bath tub, extremities bath tub, hydro galvanic bath tub, spraying desk, underwater massage and bubble grid. Other products were massage benches, inhalators and paraffin bath tubs. Important group created light therapy, infrared and ultraviolet irradiators. Further products were also dental chairs, compressors, incubators and medical furniture.

In February 1998 Chirana Progress took part of Chirana Piešťany and has been continuing production of physiotherapy equipment – hydrotherapy, electro therapy, light therapy, massage benches. Production range was later complemented with inhalators and paraffin bath tubs. In the first year of Chirana Progress production the bath tub Ocean Forte gained international award Golden Mefa in International medical fair MEFA in Brno, Czech Republic.

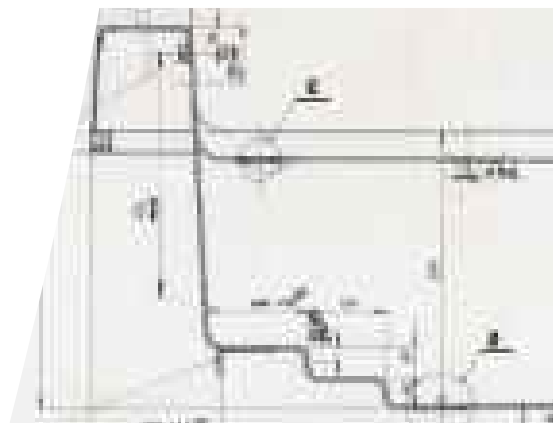
Extraordinary significance is given to the quality of Chirana Progress products. The first Quality management system certificate was issued in 2000.

Today Chirana Progress has certificates according to the ISO 9001 and ISO 13485 standards.



### Main important milestones in history of **Chirana Progress**

13.11.1997	<b>Establishment of Chirana Progress</b>
01.02.1998	<b>Start of the production</b>
06.11.1998	<b>Golden MEFA award</b>
18.07.2000	<b>ISO 9001:1994, EN 46001:1996</b>
14.01.2004	<b>ISO 13485:2003, CE 0434</b>
01.06.2006	<b>New models of bath tubs</b>
26.03.2007	<b>ISO 9001:2000, CE 1293, ISO 13485:2003</b>





## Sales and economic data

The most important territory is Russian Federation with 34% sales share followed by Slovakia 15%, Czech Republic 11%, Baltic states 9%, Belorussia 8%, Poland 6%. Further export territories are Kazakhstan, Austria, Germany, Slovenia, Portugal, Saudi Arabia, Ukraine, Uzbekistan, Hungary, Netherlands etc.



The turnover of Chirana Progress increased from 1,1 mil EUR in 1998 to 2.3 mil EUR in 2006. For the future we plan further innovations and also to put into production new devices dedicated for hydrotherapy, electro therapy, massage and inhalation to cover wider range of requirements of our customers.

Chirana Progress is subsidiary of Mediprogress company and together with the others – Mediprogress Humenné and Mediprogress FR in Moscow - belongs to the „Mediprogress Group“ with aggregate turnover about 7 mil EUR.

## Reference list:

**SLOVAKIA: Spas:** Slovak Health Spa Piešťany – „Thermia Palace/ Irma“, „Military Spa Institute“–Piešťany, Dudince- „Rubín“, „Smaragd“ „Diamant“, Bardejov, Bojnice, Turčianske Teplice, Nový Smokovec, Kováčová, Štrbské Pleso, Ružbachy, Tatranská Kotlina, Brusno, Nimnica, Trenčianske Teplice, Sklené Teplice, Smrdáky, Lúčky  
**Health institutes:** „National Institute of Rheumatic Diseases“– Piešťany, National Oncology Institute- Bratislava, KRÚ MV „Bystrá“ – Liptovský Ján

**Hospitals:** Children's university hospital -Bratislava, University hospital Nitra, hospital Trstená,

**Hotels:** Wili- Púchov, Magnólia, Pavla, Máj – Piešťany, „Park hotel na Baračke“- Tr. Teplice, „Rooyal Place“ Tatrasan, Nový Smokovec

**Health Centres:** „Hippokrates“, „Astra“ Bratislava

**Sports clubs:** Matador Púchov, MŠK Žilina, FC Nitra, Levice

**Enterprises:** Volkswagen Bratislava, Slovnaft Bratislava, Duslo Šaľa, Slovglass Poltár

**CZECH REPUBLIC:** Spas: „Imperial“, „Chopin“, „Bristol“, „Kolonáda“, „Mercedes“, „Richmond“, „Ostende“, „Jesenius“ – Karlovy Vary, „Monty“ – Mariánské Lázně, Jáchymov, Poděbrady, Třeboň, Kynžvart, Konstantinovy lázně, Jeseníky, Luhačovice, Hodonín, Bělohrad „ Rehabilitační klinika Malvazinky“ – Meditera, Prague, hospital Na Bulovce- Prague

**POLAND:** „Astoria“ Busko Zdrój, „Slupski Ośrodek sportu i rekreacji“ – Slupsk, „ Villa Scalliano“ – Kudowa Zdrój, Obiekty Sanatoryjno Wczasowe „Pólnoc“ , Zespół Sanatoryjno wczasowy „Arka Mega“ – Kolobrzeg, ZOZ Korńskie, Spa Nałęczów, Hospital Nr. 4 – Lublin, „Górnośląski Ośrodek Rehabilitacji Dzieci“ – Rabka Zdrój, „Afrodyta“- Ośno Lubuskie, „Victoria“ – Radzyń, „Wojskowy Szpital Uzdrowskowo- Rehabilitacyjny“ – Krynica, Ustroń, Piwniczna Zdrój

**EGYPT:** Menaville- Safage, Pyramisa hotel Cairo,

**UKRAINE:** Spa Truskavec, Mischor, Jalta

**LITHUANIA:** Spa Druskiniai

**RUSSIAN FEDERATION:** Sanatorium Zapolarje, Norilskij Nikel, Sanatorium Rus, "UD Prezidenta RF", Pension „Izumrud“, Meria Moscow, OAO „Tatneft“ RT, Komplex AOA „Tat-energog, Mežregionalnoe klinicko-diagnostickoe centrum RT, RKB2, Centrum vertebronerologie in Kazani, Kazan centrum rehabilitácie invalidov Voschoždenie SPA-hotel Gelios, Sankt Peterburg, Sanatorium Lečebnyj Narzan, Kislovodsk

**AUSTRIA:** Bad Ischl

**GERMANY:** Bad Windsheim

**HUNGARY:** Hotel Ar

The water therapy bath tub **LAGUNA** can be used for water therapy cures, particularly for the bath of the whole body of an idle patient. Various kinds of bath cures can be administered in this tub as follows – simple hyper thermic, mineral, bubble bath, carbonic, radon and bath with add-ins. The possibility to use following bath cures remains in the higher models of Laguna tub: simple hyper thermic, universal, radon. At some cures with add-ins the surface colour of the tub shell may change. It is no defect, however.

**LAGUNA BUBBLE** is designed to be used for treatment by gentle stimulative massage of the whole body under the water with help of bubble bath. That is why this product has a built-in pressed air generator and special air jets located on the bottom of the tub shell. With appropriate water temperature muscle stretch can be removed.

**LAGUNA PLUS** can be used for water therapy cures, particularly for the bath of the whole body, the massage by a stream of water provided under water by massage water jets. The massage effect is achieved with massage water jets that are ergonomically located on all inner walls of its tub. Mechanical and thermal effects can thus be beneficial to human body. With appropriate water temperature muscle stretch can be removed.

**LAGUNA PLUS BUBBLE** with hydro massage and built-in bubble-grid can be used for water therapy cures, particularly for the bath of the whole body, the massage by a stream of water provided by massage water jets. Mechanical and thermal effects can thus be achieved. This type of tub is designed to be used for bubble massages, i.e. gently irritant forms of whole body massage under water by means of air bubbles. For this reason a source of air is supplied with the product. On the bottom of the tub air jets used for this kind of massage are located..

Standard equipment for LAGUNA bath tub	Laguna	Laguna Plus	Laguna Bubble	Laguna Plus Buble
Filling of water with add-ins (carbonic, universal)	x	x	x	x
Shower for tub cleaning, (s)-with stop-valve(s)	x	x(s)	x	x(s)
Built in bubble grid connection	x	x		
Built in bubble grid (60 air jets)			x	x
Air massage system drying			x	x
25 water massage jets		x		x
Water massage jets regulation		x		x
Air mixture addition into massage jets with regulation		x		x
Water massage jets rinsing		x		x
Full drainage system		x		
Optional equipment for LAGUNA bath tub		x		x
Recycling	x	x	x	x
Foot support	x	x	x	x
Chromatherapy		x	x	x
Electromagnetic incrust stoper		x		x
Reduced two level steps	x	x	x	x
Technical parameters of LAGUNA bath tub				
Useful tub capacity(2)	200 l	200 l	200 l	200 l
Max. tub capacity(1)	300 l	300 l	300 l	300 l
Inlet of warm and cold water	2 x 1"	2 x 1"	2 x 1"	2 x 1"
Time of tub filling: useful tub capacity(2)	2,5 min.	2,5 min.	2,5 min.	2,5 min.
Drainage time: useful tub capacity (2)	2,2 min.	2,2 min.	2,2 min.	2,2 min.
Cold water inlet	1 x 3/4"	1 x 3/4"	1 x 3/4"	1 x 3/4"
Dimensions (l x w x h)	2200 x 870 x 790-815 mm			
Inlet of compressed air	1 x 3/8"	1 x 3/8"		
Weight	79 kg	114 kg	95 kg	122 kg
Rated voltage		3 x 400 V	230 V	3 x 400 V
Rated frequency		50 Hz	50 Hz	50 Hz
Rated power input		600 VA	800 VA	1400 VA
Electronic enclosure protection		IP 54	IP 54	IP 54
Protection against electrical accident		Class I.	Class I.	Class I.

**Note.:** (1) – Max. tub capacity means the water quantity needed to fill up the tub up to the overflow outlet.

(2) – Useful tub capacity means the water quantity needed to fill up the tub with a patient in it with jets sunk in the water.

**Note.:** **Recycling**-Filling option from a recycling system.

- Drainage option into a recycling system.

**Note.:** **Chromatherapy**-10 independent lights.

- 4 colours: green, yellow, blue, red.

- Change and arrest of selected colour.



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Balneological **bath tub**

The underwater and whirling massage bath tub **OCEAN** is used for massage treatment of the whole body or of its parts, using underwater application of water stream, either by jet or massage jet mounted on hose. This type of massage produces mechanical and thermal effects. Adequate bath and water stream temperature causes muscle relaxation. Water stream pressure results in relative heat-up of muscles, with both neural and metabolic effects applied. This type of massage is used in treatments of post-traumatic states, muscle and joint injuries, insufficient blood circulation in extremities, ischialgia, spastic and atonic polio and obesity.

#### **Standard equipment OCEAN Economy**

Water massage hose with a massage jet and hose holder.  
Continuous pressure regulation of the air addition into the massage hose.  
Continuous pressure regulation in the massage hose from 0 to maximum.  
Analogue reading and display of filling water temperature.  
Analogue reading and display of water pressure.  
Sanitary shower with stop valve for cleaning the bath tub.  
Full drainage system for complete water discharge from the water massage circuit.  
Water massage system rinsing  
Two level step.

#### **Standard equipment OCEAN Standard/Forte**

24/40 water massage jets OCEAN STANDARD/OCEAN FORTE  
Water jets performance regulation.  
Air addition and regulation in water jets for all massage zones.  
Electronic reading and display of the filling and bath tub water temperature.  
Electronic water pump protection against dry running.  
Simple control from keypad with 8 digits LED display.  
Procedure duration setting from 0 to 99 minutes.  
Electronic reading and display of water pressure in the hydro-massage system.  
Water massage hose with a massage jet and massage hose holder.  
Continuous pressure regulation in the massage hose from 0 to maximum.  
Continuous pressure regulation of the air addition into the massage hose.  
Sanitary shower with stop valve for cleaning the bath tub.  
Water massage jet rinsing.  
Full drainage system for complete water discharge from the water massage circuit.  
Two level step.

#### **Standard equipment OCEAN De Luxe**

134 water massage jets divided into 5 independent massage zones.  
Air addition into water massage jets with regulation.  
Automatic mixing of filling water in the bath tub.  
Electronic reading and display of the filling and bath tub water temperature.  
Automatic bath tub, piping and water pump drainage.  
Water pump protection against dry running.  
Simple control with keypad and alphanumeric display.  
Fully automatic massage control.  
5 pre-set built-in and 20 individually adjustable hydro massage programmes.  
Pre-set of procedure duration from 0 to 99 minutes.  
Independent control of each massage zone.  
Electromagnetic incrust stopper.  
Selection of the display language - Slovak, Russian, Czech, Polish, English  
Shower for hygienic washing.  
Two level step.

Ocean®



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#### Note.:

##### Recycling:

Filling option from a recycling system.

Drainage option into a recycling system.

##### Chromotherapy

10 independent lights.

4 colours: green, yellow, blue, red.

Change and arrest of selected colour.

##### Underwater massage:

Water massage hose with a massage jet.

Continuous pressure regulation of the air

addition into the massage hose.

Continuous pressure regulation in the

massage hose from 0 to maximum.

Digital reading and display

of massage efficiency.

##### Two selectable modes of use:

1.Specialized „SUBAQUAL“ programme

(Maximum efficiency of massage)

2.Combined with any other under water

massage programme.

##### Note.:

(1) – Max. tub capacity means the water quantity needed to fill up the tub up to the overflow outlet.

(2) – Useful tub capacity means the water quantity needed to fill up the tub with a patient in it with jets sunk in the water.



#### Optional equipment for OCEAN tubs

	Economy	Standard	Forte	De Luxe
Chromotherapy	x	x	x	x
Electromagnetic incrust stoper	x	x	x	
Built in bubble grid (60 air jets)	x	x	x	
Air massage system drying	x	x	x	
Recycling	x	x	x	x
Underwater massage				x

#### Technical parameters of OCEAN tubs

	Economy	Standard	Forte	De Luxe
Useful tub capacity(2)	280 l	280 l	280 l	260 l
Max. tub capacity(1)	450 l	450 l	450 l	440 l
Inlet of warm and cold water	2 x 1"	2 x 1"	2 x 1"	2 x 1"
Time of tub filling: useful tub capacity(2)	3,5 min	3,5 min	3,5 min	3,2 min
Drainage time: useful tub capacity (2)	3,1 min	3,1 min	3,1 min	3,4 min
Dimensions (l x w x h)	2500 x 960 x 920-945 mm			
Inlet of compressed air	1 x 3/8"	1 x 3/8"	1 x 3/8"	
Weight	114 kg	137 kg	139 kg	164 kg
Rated voltage	3x 400	3x 400 V	3 x 400 V	3 x 400 V
Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz
Rated power input	1150 VA	2000 VA	2000 VA	2000 VA
Electronic enclosure protection	IP 54	IP 54	IP 54	IP 54
Protection against electrical accident	Class I.	Class I.	Class I.	Class I.

Underwater and whirling massage

Ocean®

# Hubbard bath

The **HUBBARD** Bath is used for therapeutic massage of the whole human body or its parts. The underwater massage can be applied either as a pressure one using the hose massage nozzle or as a whirlpool massage with whirling water stream by switching it into the hydrotherapy water jets nozzles.

## Standard equipment

- 8 water massage jets divided into 2 independent massage zones. Water massage jets regulation.
- Air mixture addition into massage jets with regulation in all massage zones .
- Analogue reading and display of filling water temperature.
- Individual control of each massage jet zone.
- Hydrotherapy massage hose with massage jet.
- Pressure regulation in the massage hose.
- Massage hose holder.
- Continuous air mixture regulation into massage hose.
- Analogue reading and display of massage efficiency.
- Shower for hygienic washing.
- Two level step.
- Accessories for an immobile patient

## Optional equipment

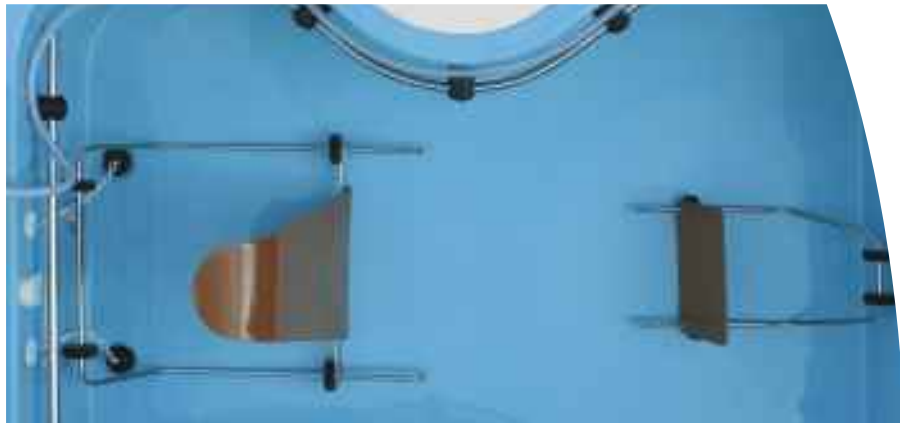
- Built-in protection against scale.
- Electromagnetic incrust stoper

### Technical parameters

	Hubbard bath
Rated voltage	3x400 V
Rated frequency	50 Hz
Rated power input	1150 VA
Warm water supply	3/4"
Cold water supply	3/4"
Tub discharge	2"
Dimensions without steps (l x w x h)	2670 x 2000 x 1100 mm
Useful tub capacity	970 l
Weight	390 kg
Protection against electrical accident	Class I.
Protection by cover	IP 54



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water and whirling **massage**

Hubbard bath

The underwater and whirling massage bath tub **VOD 56** is used for massage treatment of the whole body or of its parts, using underwater application of water stream by massage jet mounted on hose. This type of massage produces mechanical and thermal effects.

Adequate bath and water stream temperature causes muscle relaxation. Water stream pressure results in relative heat-up of muscles, with both neural and metabolic effects applied. This type of massage is used in treatments of post-traumatic states, muscle and joint injuries, insufficient blood circulation in extremities, ischialgia, spastic and atonic polio and obesity.

**VOD 56** belongs to the classic series of underwater massage bath tubs. Exceptional large volume of water is suitable also for patients with higher body mass. The dimensions enable extraordinary space for underwater massage.

Powerful massage with 450kPa pressure provides very efficient massage effect. The bath tub **VOD 56** is supplied with two level step.

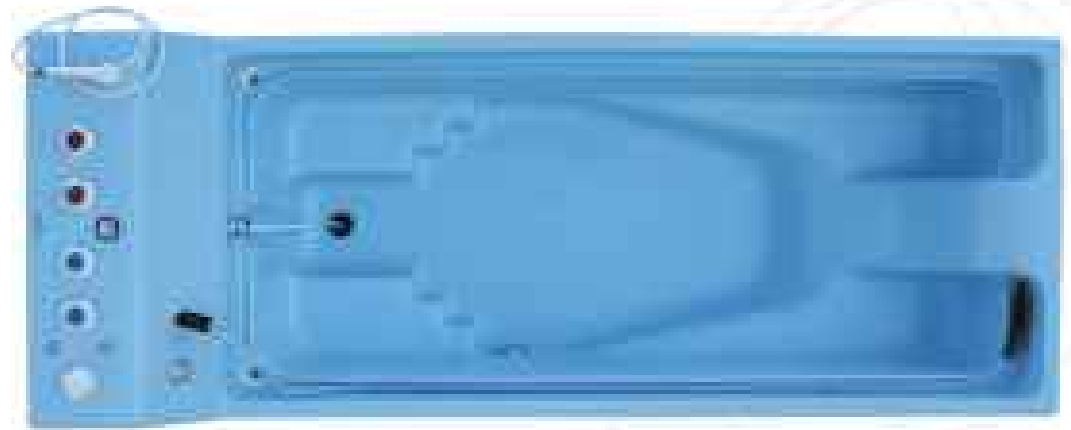
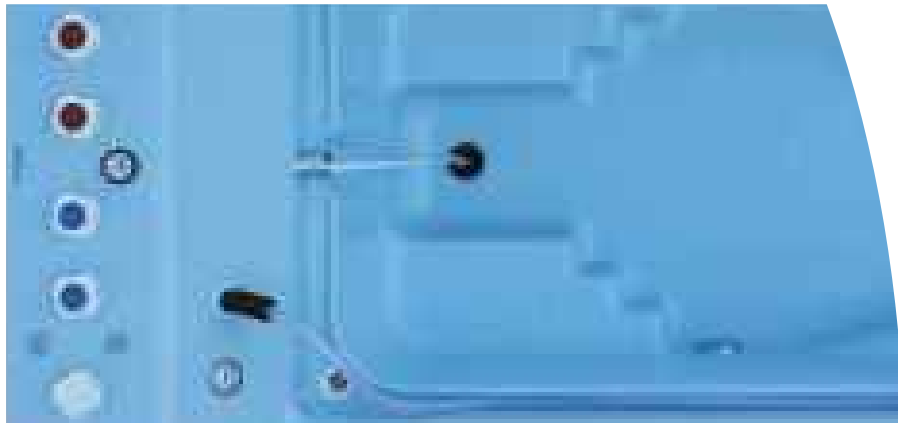
#### Technical parameters

	<b>VOD 56</b>
Rated voltage	<b>3 x 400 AC</b>
Rated frequency	<b>50 Hz</b>
Rated power input	<b>1150 VA</b>
Inlet of warm and cold water	<b>2 x 1"</b>
Max. tub capacity(1)	<b>550 l</b>
Useful tub capacity (2)	<b>370 l</b>
Time of tub filling max.	<b>4,3 minutes</b>
Drainage time	<b>4 minutes</b>
Protection against electrical accident	<b>Class I.</b>
Protection by cover	<b>IP 54</b>
Weight	<b>150 kg</b>
Dimensions (l x w x h)	<b>2600 x 1000 x 1200 mm</b>

**Note.:** (1) – Max. tub capacity means the water quantity needed to fill up the tub up to the overflow outlet.

(2) – Useful tub capacity means the water quantity needed to fill up the tub with a patient in it with jets sunk in the water.





Underwater **massage**

VOD 56®



The limb galvanic bath **ELECTRA** is designed to provide application of galvanic current in water on the upper and lower extremities. While flowing from one limb to another, the galvanic current causes polarization of the tissues. This polarization can be considered as an intracellular and extracellular temporary disorder of the dynamic metabolic derangement. The body protects itself against this condition by a neural and humoral controlled reaction. The polarization effect is first of all hyperaemia, mainly in the capillary zones.

**The limb galvanic bath is administered mostly at:**

central nervous system failures as for spondylous painful syndromes, neuralgia, polyneuritis, non-paralytic poliomyelitis and at conditions of increased or low irritabilities of the afferent and efferent nerves;  
degenerative and chronic inflammatory disorders of the body's motor system, mainly at disorders of the small joints of hands and legs, rheumatic diseases of muscles and other types of small joint rheumatism;  
traumatogenic conditions;  
vasoneurosis, spasticity of the vastus muscle, myoclonic twitches, latter phase of Sudeck's atrophy and at decrease in the muscle tone of extremities.

The descending currents have overall calming affect. To achieve this, the upper extremities are connected to the positive pole of the source, while the lower ones get negative polarity. When connected in reversed polarity, the application stimulates the vegetative nervous system.

**Standard equipment**

Ergonomic design for operator and patient.  
Comfortable seating of the patient.  
Procedure duration setting within one hour time span.  
Ceiling value of the current up to 500 mA in one tank.  
Intertank maximum current setting up to 30 mA.  
Current mode setting to galvanic, monophasic, diphase, CP and LP.  
Graphical display of the current curve and its flow direction.  
Easy operation and communication through the graphical display with touch panel  
External electrode.  
Programming of electrode combinations and types of current and storing them into so-called series as per the physician's recommendation.

Technical parameters	Electra
Rated voltage	230 DC
Rated frequency	50 Hz
Rated power input	30 VA
Current measurement accuracy	+/- 10% from full range
Time measurement accuracy	+/- 5 seconds/hour
Working cross current regulation	0.2 mA steps
Cross current change ratemax.	4 mA/s
Working current regulation in the tank	2mA steps
Current change rate in the tankmax.	about 50 mA/s
Current range in one tank	25 up to 500 mA
Cross current range	0 up to 30 mA
Number of electrodes	9
Option to choose the source polarity	each electrode
Polarity signalizationeach electrode	each electrode
The ceiling output voltage	24 V
Types of currentsdirect current	current
Half-wave rectification 50Hz	Mono phase (MP)
Full-wave rectification 100Hz	Diphase (DP)
1 sec MP + 1 sec DP	CP
5 sec MP + 10 sec DP change 1 sec	LP
Protection against electrical accident	Class I.
Protection by cover	IP 54
Weight	56 kg
Dimensions (l x w x h)	1280 x 950 x 950-975 mm
Hot and cold water inlet	2 x 3/4"
Hand tank useful capacity(2)	2 x 13 l
Hand tank maximum capacity(1)	2 x 14,5 l
Foot tank useful capacity(2)	2 x 24,5 l
Foot tank maximum capacity(1)	2 x 27 l

**Note.:**

- (1) – Max. tub capacity means the water quantity needed to fill up the tub up to the overflow outlet.
- (2) – Useful tub capacity means the water quantity needed to fill up the tub with a patient in it with jets sunk in the water.



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Limb galvanic **bath**

Electra®

**NIAGARA** is a product consisting of three main parts, namely SPRAYING DESK, CIRCULAR SHOWER and HIP SHOWER. Interconnection of the three parts results in an equipment providing complete non-tub treatment. With respect to ordering, the CIRCULAR and HIP SHOWERS are considered as optional outfit.

**SPRAYING DESK.** The appliance provides one or two water massage streams. Beside classical hydro-massage, the healing effect is in the possibility of instantaneous dynamical alteration of the warm and cold water effect upon body surface. Thus, blood circulation in body surface improves, affecting positively the thews and the central nervous system, supporting metabolism and contributing to tuning of the organism from catabolic to anabolic status. During the treatment two massage streams directed by the operator are acting upon the patient.

**CIRCULAR SHOWER** is an appliance providing spatial spot massage of the whole body via a system of small holes. Simultaneously, with adequate water temperature ensured by thermostatic faucets on the SPRAYING DESK, relaxation and cleanup effects are provided..

**HIP SHOWER** is used to apply massage, healing and cleanup procedures on the patient's body parts which are accessible in sitting position (such as anus, genitals, etc.). For this purpose, the appliance is equipped with dual mode shower head (two or three streams and multi stream (showering)).

#### Standard equipment

Performance regulation of water massage streams.  
Automatic water massage streams temperature mixing.  
Analogue reading and continuous display of water massage streams temperature.  
Analogue reading and display of massage efficiency.  
Separate control of each water massage stream.  
Concentrated or spread water stream.  
Adjustable hand rest.  
Patient grip.

#### Optional equipment

CIRCULAR SHOWER  
HIP SHOWER

#### Technical parameters

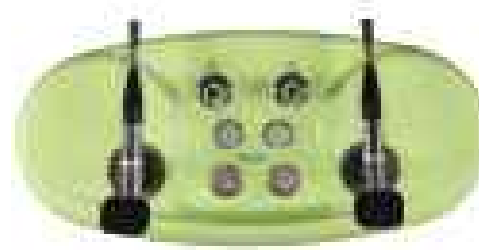
Cold water supply	2 x 3/4"
Warm water supply	2 x 3/4"
Operation pressure	0,3 - 0,5 MPa
Supply piping pressure	0,3 - 0,5 MPa
Dimensions (l x w x h)	500x1000x1120 ± 20 mm
Weight	46 kg
Water flow rate	20-48 l/minute

#### Optional equipment

Water discharge for Circular shower	1 x 3/4"
Water discharge for Hip shower	1 x 3/4"
Circular shower connection	1 x 1"
Hip shower connection	1 x 1/2"
Dimensions Circular shower (l x w x h)	750 x 925 x 2200 mm
Dimensions Hip shower (l x w x h)	450 x 460 x 420 mm
Weight Circular shower	18 kg
Weight Hip shower	8,5 kg
Water flow rate - Circular shower	20-45 l/minute
Water flow rate - Hip shower	20-30 l/minute



aquaViva



The whirling foot bath **CASCADE** is designed to provide massage of the lower extremities. Its construction also allows doing partial massage of the vertebral column. The whirling impact of the massage is effective at traumatogenic conditions, after inflammations, at nervous disorders and exhaustions of the muscle nerve system of the extremities. Body recovery after heavy load, e.g. after sport performance is another field of usage.

#### Standard equipment

23 water massage jets allocated in the three massage zones.  
Water jets performance regulation.  
Air addition and regulation in water jets for all massage zones.  
Electronic reading and continuous temperature display of the filling water.  
Electronic reading and continuous temperature display of the bath tub water.  
Electronic water pump protection against dry running.  
Simple and easy control from keypad with 8 digits LED display.  
Procedure duration setting from 0 to 99 minutes.  
Electronic reading and continuous display of water pressure in the hydrotherapy massage system.  
Shower for tub cleaning with stop-valve.  
Water massage jets rinsing.  
Full drainage system for complete water discharge from the water massages circuit.  
Two level step.

#### Optional equipment Chromatotherapy

6 independent lights,  
4 colours: green, yellow, blue, red,  
Change and arrest of selected colour.

#### Optional equipment Electromagnetic incurrent stoper Built-in bubble grid

44+1 air massage jets.  
Air massage system drying.

#### Recycling

Filling option from a recycling system.  
Drainage option into a recycling system.

#### Technical parameters

	Cascade
Rated voltage	3x400 V
Rated frequency	50 Hz
Rated power input	800 VA
Inlet of warm and cold water	2 x 1"
Max. tub capacity(1)	270 l
Useful tub capacity (2)	2 minute
Time of tub filling: useful tub capacity(2)	1,8 minute
Drainage time: useful tub capacity (2)	165 l
Protection against electrical accident	Class I.
Electrical enclosure protection	IP 54
Weight	94 kg
Dimensions (l x w x h)	1520x870x1035-1060 mm

**Note.:** (1) – Max. tub capacity means the water quantity needed to fill up the tub up to the overflow outlet.  
(2) – Useful tub capacity means the water quantity needed to fill up the tub with a patient in it with jets sunk in the water.

Cascade®





Whirling lower back and **foot bath**

Cascade®

**LASTURA PROFI** is designed to be used in water therapy cures of the lower extremities after posttraumatic conditions, at inflammations, disorders of the central nervous system, states of exhaustion of the neuro muscular apparatus of the lower extremities and for regeneration after heavy load of the human body.

#### Standard equipment

Anatomically shaped tub.

14 water massage jets.

Water jets performance regulation by air addition with control option.

Full drainage system for complete water disposal from the hydro-massage circuit.

Shower for sanitary purposes.

#### Optional equipment

Built-in incrust stopper

#### Technical parameters

Technical parameters	Lastura
Useful tub capacity (2)	45 l
Max. tub capacity(1)	54 l
Inlet of warm and cold water	2 x 3/4"
Time of tub filling: useful tub capacity(2)	1,5 minutes
Drainage time: useful tub capacity (2)	0,8 min
Weight	44 kg
Dimensions (l x w x h)	880 x 760 x 790-815 mm
Rated voltage	230 V
Rated frequency	50 Hz
Rated power input	600 VA
Electrical enclosure protection	IP 54
Protection against electrical accident	Class I.

**Note.:** (1) – Max. tub capacity means the water quantity needed to fill up the tub up to the overflow outlet.

(2) – Useful tub capacity means the water quantity needed to fill up the tub with a patient in it with jets sunk in the water.







Whirling **foot bath**

The whirling hand bath **CORAL** is designed to provide massage of the upper extremities. The whirling impact of the massage is effective at traumatogenic conditions, after inflammations, at nervous disorders and exhaustions of the muscle nerve system of the extremities. Upper extremities recovery after heavy load, e.g. after sport performance, etc. is another field of usage.

#### Standard equipment CORAL

The inner space of the tub allows the most efficient water massage due to the shape and space.  
Comfortable seating position of the patient.  
12 water massage jets.  
Water jets performance regulation by air addition  
Shower for tub cleaning with stop-valve.  
Full drainage system for complete water discharge from the water massage circuit.

#### Standard equipment CORAL LYMFO

Like CORAL, plus:  
Device for lymphatic massage.  
Electronic reading and continuous temperature display of the filling water.  
Electronic reading and continuous temperature display of the bath tub water.  
Electronic water pump protection against dry running.  
Simple and easy control from keypad with 8 digits LED display.  
Procedure duration setting from 0 to 99 minutes.  
Electronic reading and continuous display of water pressure in the hydrotherapy massage system.  
Water massage jets rinsing.

#### Optional equipment CORAL / CORAL LYMFO

Electromagnetic incrust stoper.

#### Technical parameters

	Coral/Coral Lymfo
Useful tub capacity (2)	30 l
Max. tub capacity(1)	35 l
Inlet of warm and cold water	2 x 3/4"
Filling time: useful capacity(2)	1 min
Drainage time: useful tub capacity (2)	0,5 min
Weight	65/70 kg
Dimensions (l x w x h)	950 x 870 x 1050 mm
Rated voltage – Coral Lymfo	3x400 V
Rated voltage – Coral	230 V
Rated frequency	50 Hz
Rated power input	600 VA
Electrical enclosure protection	IP 54
Protection against electrical accident	Class I.

**Note.:** (1) – Max. tub capacity means the water quantity needed to fill up the tub up to the overflow outlet.  
(2) – Useful tub capacity means the water quantity needed to fill up the tub with a patient in it with jets sunk in the water.

Coral® Coral®Lymfo





Whirling **hand bath**

Coral® Coral®Lymfo

**SALIJET** is intended for inhalation treatment of upper and lower respiratory tract disorders, all types of bronchitis and of other respiratory tract disorders without closer specification. Treatment with the use of this inhalator can be applied with all age groups, except children under 3 years of age. Children of 4 to 7 years of age can inhale under direct supervision of a parent or of authorised medical worker; in this case, suitable inhalation adapter (e.g. inhalation mask for children) must be used. The manner and duration of inhalation, as well as the use of suitable medication (inhalation preparations) will be specified by the attending physician.

By help of compressed air and nozzles, the inhalator generates mist of required structure, quality and quantity. The device has electro-pneumatic control.

#### In its basic version, the inhalator

generates three types of mist (wet, fine and mixed)  
heats the mist  
selects the inhalation treatment duration.

#### The design of the device allows to add the following modules to the basic outfit:

the Manual Nebulizer module (mRN)  
the Nasal Shower module (mNS)  
the Vibration Mode module (mVR)  
the Pulse module (ml).

Thus, the scope of the inhalator's use and the efficiency of inhalation are extended significantly.

The modules can be combined with each other, i.e. the device can be customized.

#### Technical parameters

	<b>Salijet</b>	<b>Salijet Economy</b>
Power input	80 VA	67 VA
Power supply voltage / frequency	230 V / 50 Hz	230 V / 50 Hz
Control voltage	24 V DC	24 V DC
Operation pressure	0,20 ÷ 0,30 Mpa	0,20 ÷ 0,30 MPa
Compressed air volume (recommended)	20 ÷ 50 l/minute	20 ÷ 50 l/minute
Mist heating range	25°C - 39°C	25°C - 39°C
Protection against electric injury	Class I.	Class I.
Protection against harmful entry of objects and water	IP 41	IP 41
Weight	12 kg	10,5kg
Dimensions (l x w x h)	500 x 330 x 300 mm	500 x 310 x 300 mm





# Inhalator

Salijet

The relaxation table **VOD 47 OL** is intended for safe positioning of patients while resting, or optionally for some types of manual massages. The product allows safe and comfortable lying and sitting positions for the patient.

The massage table **VOD 47 ML** is intended for safe positioning of patients for all types of manual massages. It allows to position the patient in a constant height safely.

The product is equipped with an adjustable tilting headrest that enables to alter the head or neck spine position during massage. The headrest is by default undivided. On special order it can be delivered as a two-part modification that has an ergonomic opening for comfortable and safe placing of the patient's face.

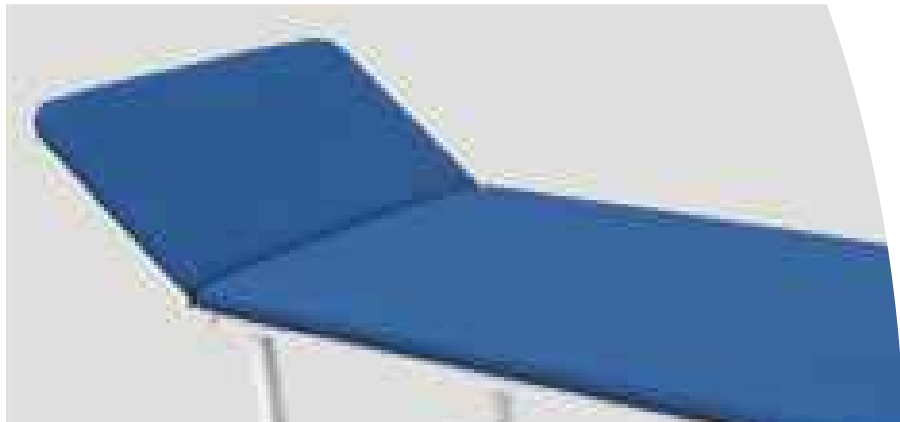
The massage table **Relax 20** is intended for safe positioning of patients for all manual massage types.

Massage bench Relax 20 allows for safe height adjustment whether under load or not, and aids in manipulation with patients with decreased mobility. It is equipped with an adjustable tilting headrest that enables to alter the head or neck spine position during massage. Relax 20 comes with a divided headrest, which has an ergonomic opening for comfortable and safe placing of the patient's face.

Technical parameters	VOD 47 OL	VOD 47 ML	Relax 20
Weight	31 kg	36 kg	54 kg
Dimensions ( l x w )	1970 x 680 mm	1985 x 680 mm	1985 x 680 mm
Height ( max. - min. )	670 mm	670 mm	925-490mm (max.-min)
Maximum recommended load	160 kg	160 kg	160 kg
Negative head support inclination		- 35°	- 35°
Positive head support inclination		+ 30°	+ 30°
Rated voltage			230 V / 50 Hz
Rated power input			140 VA
Electrical enclosure protection			IP 44







Massage/relaxation table

The Paraffin and Peat Pack Warmer **TEP** is a device that has a water bath tank. Into the bath tank the paraffin container and the accessories bin are sunk during paraffin warming.

For peat pack warming a grid is put in to the water bath tank. The peat packs are then placed on the grid. The whole unit can be placed on a cart with wheels. The water bath tank is warmed by a heater located on the bottom of the tub. The whole device is placed on a cart with wheels that allow easy movement. On the front panel there are located controls and regulation buttons with signal lamps.

### Paraffin and peat packs warming

The local application of paraffin and peat packs is used for treatment of diseases of the locomotive system caused by inflammations, degenerative processes and traumatic causalities, as well as for therapy of the posttraumatic conditions and for warming up the extremities before exercising. The temperature of the paraffin during application is about 56 °C, i.e. just above the melting point of the mixture, whereby the latent heat is also used to achieve the heat effect. The temperature of the peat pack during application shall be about 40 to 45 °C. For applications mentioned, several known procedures can be used, e.g. repeated dipping of extremities, application of paraffin by brush, spraying of paraffin on surface, applying of dipped mule masks and cuvette method. The duration of the procedure after the paraffin is layed on takes about 20 minutes. For paraffin bath we recommend to use Paraffin.

The peat pack is applied either directly, or it is used as a single-use packing. The duration of the procedure by application of peat packs takes about 20 minutes.

#### Technical parameters

	TEP	TEP PLUS
Dimensions (mm)	5330 x 540 x 290	5660 x 540 x 290
Voltage (V/Hz)	230/50	230/50
Input (W)	1500	2 x 1500
Working temperature of peat packs	40 - 45 °C	40 - 45 °C
Working temperature of paraffin	56 - 58 °C	56 - 58 °C
Sterilization temperature of paraffin about	80 °C	80 °C
Temperature range	0 - 90 °C	0 - 90 °C
Electrical accident protection	Class I.	Class I.





Paraffin and peat pack **warmer**

TEP

The chair **M1**, or **M2** has a versatile utilization thanks to its optional equipment. It can be adjusted vertically, provides arm support (dentists) and allows legs to rest while sitting. Despite of its mobility the chair is stable on the floor.

#### Technical parameters

	Chair M1, M2
Maximum load of the chair in the middle of the seat	120 kg
The weight of the chair	10,5 kg
Maximum height of the seat	560±5mm
The elevation of the seat	190 mm
The height of the back rest can be vertically adjusted between	0-240 mm

**THE BUBBLE GRID** is intended as a soft stimulant underwater massage form applied to the whole body through the compressed air, alternatively gas.

The product is designed to be portable, with attaches to the central compressed air drive, alternatively gas. The massage effect is created by air bubbles, alternatively gas bubbles, which escape from tube through above 2000 openings. Very gentle massage of the micro-bubbles makes possible to use it also in patients suffering from heart diseases. The tube is located in segments, which are each connected with the other.

#### Technical parameters

	Bubble grid
Minimal pressure of air or gas	20 kPa
Minimal compressed air or gas volume	20 l min -1
Maximal pressure of air or gas	60 kPa
Maximal compressed air or gas volume	80 l min -1
Air or gas consumption at 50 kPa max.	40 l min -1 ± 20 %
Weight	4 kg

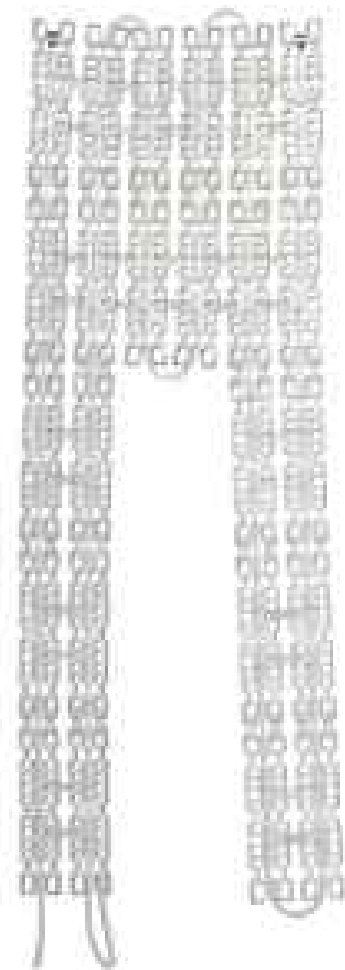
**THE STEPS** are designed to facilitate access into the bath tubs.

They stay in alignment with the side panels and are manufactured in three modifications.

#### Technical parameters

	Reduced	Standard	With handrail
Dimensions (l x w)	640 x 600 mm	640 x 600 mm	640 x 600 mm
1st step height	40 mm	220 mm	220 mm
2nd step height	260 mm	450 mm	450 mm
Handrail height			1240 mm
Weight	6 kg	8 kg	14 kg





Accessories

Accessories

The latest model series of Chirana Progress was put into production in 2006. Their design and technical solutions are a composition of long-term operational experience, customers recommendations, and skills of the constructors and other production managers.

**The main tasks was to create successful series of the products associated with several common features:**

modern, aesthetic and practical design  
functionality and variability  
anatomic and ergonomic shape  
high quality  
reliability  
low operational costs  
reasonable price

Making new design was work for a team of specialists. The final results are soft lines and round shape similar to the waves of the water. Each product bears common feature which is unique for Chirana Progress products.

Built in functions respond to the latest trends of hydrotherapy treatment using possibility of anatomically moulded material to increase treatment efficiency. The important guarantee is hand made moulding of the bath tub shells with sandwich construction and absorbing bumper layer which ensures required density, elasticity and strength. This way of production is certified by long term experience.

The latest vacuum technology with foaming system of unsaturated polyester resins is used for production of the side panels

Components used for the production ( gelcoats, polyester resins, fibre glass..) are continuously refined, contain less of the styrene and thanks to the higher ratio of vacuum lamination and efficient air filtration are practically harmless for the environment.

**The guarantee of the best quality of our products are also surface gelcoats from reputable companies. Technical parameters of the surface layer evenly sprayed in thickness 0,5-0,7 mm ensure:**

perfect joining of both polyester based materials-fiberglass shell and gelcoat and thus gain very strong and resistant material.  
excellent color stability and UV protection  
easy repairs and re-polishing

Due to high elasticity and mechanical properties these composites are designed for manufacturing of cars body, boats, and other products with high strike resistance. High surface density and hardness of the gelcoats provide minimal value of soakness and antibacterial properties. Resistance against low acids and alkalis is very important feature too. The surface of the composites is hygienic and suitable for production of sanitary equipment, for contact with food and drinking water.

High importance is put also on the choice of other materials coming into the contact with patient and the staff. Stainless steel water pumps are almost noiseless and very reliable, stem valves ensure easy and accurate water flow regulation. The control electronics gives information about the most important parameters and the top bath tubs are equipped with programmable control panel which can substantially increase productivity of the staff.

All bath tubs are designed for use of supply water, mineral, thermal and salty water and also water with various essences and addition of peat or curative mud.

That is why the scope of usage is very wide starting with curative procedures in spas or health facilities in relax and fitness centers, beauty salons, hotels, boarding houses, sports clubs and even in family houses.

Products of Chirana Progress combine excellent functionality parameters and low operational costs. This is possible thanks to:

high ratio of own solutions among the components  
unique construction of certain parts distinct from mass used such as stainless steel hydro massage jets with air admixture and massage holder patented by Chirana Progress

low energetic intensiveness which ranks our products to AAA+ class

And last but not least is 1 500 shades of colour which will satisfy the most demanding customer.

**All these features guarantee that our products won't let you down. This is an experience of thousands of our customers in the course of the last ten years.**





	Laguna															
	Laguna	Laguna Plus	Laguna Bubble	Laguna Plus Bubble	Ocean Economy	Ocean Standard	Ocean Forte	Ocean de Luxe	Cascade	Coral	Coral Lymfo	Lastura Profi	Niagara N.Plus	VOD 56	Hubbard	Electra
Outer length (mm)	2200	2200	2200	2200	2500	2500	2500	2500	1520	950	950	880	500	2600	2670	880/1280
Outer width (mm)	870	870	870	870	960	960	960	960	870	870	870	760	1000	1000	2000	760/950
Outer height (mm)	790	790	790	790	920	920	920	920	1035	1045	1045	775	1100	1200	1100	780/900
Entry height (mm)	720	720	720	720	885	885	885	885	920	980	980	520	-	900	900	520
Inner length max. (mm)	1700	1700	1700	1700	1900	1900	1900	1900	1010	250	250	425	-	2090	2000	425/580
Inner width max. (mm)	710	710	710	710	780	780	780	780	710	740	740	620	-	900	1850	230/210
Inner depth max. (mm)	495	495	495	495	540	540	540	540	700	220	220	400	-	625	560	390/195
Useful water capacity (l)	200	200	200	200	280	280	280	260	165	30	30	45	-	370	970	2x25/2x13
Filling time (min)	2,5	2,5	2,5	2,5	3,5	3,5	3,5	3,2	2	1	1	1,5	-	4,3	11	1,8
Drainage time (min)	2,2	2,2	2,2	2,2	3,1	3,1	3,1	3,4	1,8	0,5	0,5	0,8	-	4	5	1
Weight (kg)	79	114	95	122	114	137	139	164	94	65	70	44	40/46	150	390	56
IP protection		54	54	54	54	54	54	54	54	54	54	54		54	54	54
Manual control	+	+	+	+	+					+		+	+	+	+	
LCD display						+	+	+	+		+					
Touch sensitive LCD display																
Input (VA)	-	800	600	1400	1150	2000	2000	2000	800	600	600	600		1150	1150	30
Power supply (V)		230/3x400	230	230/3x400	230/3x400	230/3x400	230/3x400	230/3x400	230/3x400	230	230/3x400	230/3x400		230/3x400	230/3x400	230
Water inlet	DN25/20	DN25/20	DN25/20	DN25/20	DN25/20	DN25/20	DN25/20	DN25/20	DN25/20	DN20/15	DN20/15	DN20/15	DN20	DN25/20	DN25/20	DN20
Water outlet	DN70/50	DN70/50	DN70/50	DN70/50	DN70/50	DN70/50	DN70/50	DN70/50	DN70/50	DN50/32	DN50/32	DN50/32	DN70	DN100/60	DN100/60	DN50/32
Inlet water thermometer					+	+	+	+	+		+		+	+	+	
In tub thermometer						+	+	+	+		+					
Water level sensor								+								
Water recycling	o	o	o	o	o	o	o	o	o				o			
Carbonic water inlet	o	o	o	o	o	o	o	o	o							
Mineral water inlet	o	o	o	o	o	o	o	o	o							
Stairs	o	o	o	o	+	+	+	+	+					+	+	
Hygienic shower	+	+ stop	+	+ stop	+	+ stop	+ stop	+	+ stop	+	+ stop	+		+	+	
<b>Water massage</b>																
Balneological bath	+	+	+	+	+	+	+	+	+	+	+	+		+	+	
No. of water massage jets		25		25		24	40	134	23	12	12	14			8	
Water jets pressure adjustment						+	+								+	
Air addition adjustment in water jets		25		25		24	40	24	23	12	12	14			8	
No. of zones		1		1		1	1	5	3	1	1	1			3	
Electronic water pump protect. against dry running						+	+	+	+		+					
Water massage system rinsing		+		+		+	+	+	+		+					
Massage hose					+	+	+	o						+	+	
Device for lymphatic massage											+					
Pressure adjustment in massage hose / lympho					+	+	+	+			+			+	+	
Air addition adjustment in massage hose / lympho					+	+	+	+						+	+	
<b>Air massage</b>																
Bubble grate connection	+	+	o	o	o	o	o	o						o		
No. of air jets			+ 60	+ 60	o 60	o 60	o 60	+ 24	o 45							
Air heating			+	+	+	+	+		+							
Bubble grid drying			+	+	+	+	+		+							
Bubble grate with 2000 holes	o	o	o	o	o	o	o							o		
<b>Chromatherapy</b> with 4colors-R,G,B,Y																
No. of lights for each color		8	8	8	10	10	10	10	6							
Color cycling		+	+	+	+	+	+	+	+							
Arrest of selected color		+	+	+	+	+	+	+	+							
Manual disinfection after procedure	+	+	+	+	+	+	+	+	+	+	+	+		+	+	
Water softener		o		o	o	o	o	+	o	o	o	o		o	o	

+ standard equipment

o optional equipment





aquaviva



aquaviva



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