

Your Partner in Laboratory Centrifuges

MSE

with **t**ouch
technology

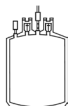


BLUE FORCE 12L R

New version of the blood bank centrifuge



4 200 rpm



12 blood
bags



MSE
15 Rue du Mans
49300 Cholet, France



+33 (0) 24164 7341



info@mse-sas.fr



MSE Centrifuges



Decades of centrifuge
intelligence

THE MAIN BENEFITS FOR YOU



PEACE OF MIND

Fully compliant with EU regulations. Complete range of adaptors perfectly designed to fully support your blood bags during centrifugation whatever their capacity and minimise spoiled samples.

RELIABILITY

Quality design from a brand you can trust, with over 85 years of experience in manufacturing centrifuges. Rugged and built to last. Everything you'd expect from an MSE centrifuge. Every Blue Force 12L R centrifuge undergoes rigorous inspection procedures and performance testing before leaving our factory. Every Blue Force 12L R is covered by our comprehensive warranty that covers all parts of the centrifuge.

SERVICE & MAINTENANCE

Maintenance free, brushless induction drive. Automatic alert when service is due. Inbuilt diagnostics makes fault finding easy. All electronic parts located on a single, easily detachable chassis plate inside the front panel. Software based electronics eliminates the possibility of spare parts becoming obsolete. Buckets are more than 600g lighter than our nearest competitor. This makes periodic cleaning less of a strain when removing buckets.

VERSATILITY

Spin single, double, triple, quadruple, quintuple and sextuple bags. Custom-made adaptors available on request. Personalise each Blue Force 12L R with different screen layouts. The centrifugation parameters can be changed while running for more flexibility.

SAFETY

Out of balance cut out, automatic rotor recognition and over speed protection. Multi-point lid lock, reinforced guard ring. Motor and chamber over temperature cut outs. Case and lid made of high grade steel and aluminium. Disruption tested to ensure safety for users. Conforms to safety standard EN 61010.

ECO-FRIENDLY

A low energy consumption centrifuge which is kind to the environment. Made from over 85% recyclable materials such as steel, copper and aluminium. When your Blue Force 12L R is at the end of its life, MSE will collect it from any location in the world and recycle it, recovering any harmful substances in the process. All MSE centrifuges conform to the European RoHS (Restriction of Hazardous Substances) Directive, meaning they are free of harmful substances such as lead, mercury and cadmium.

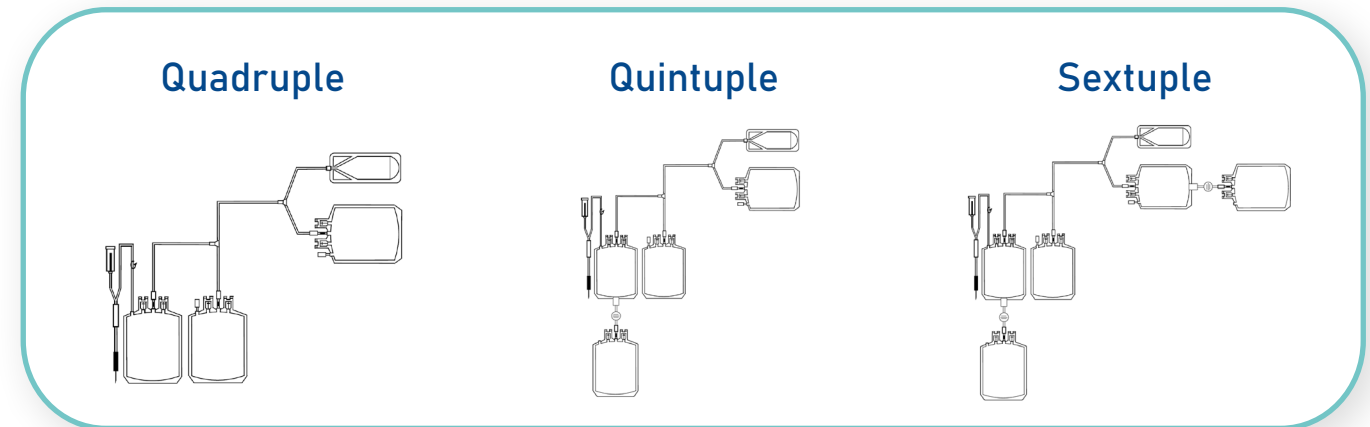
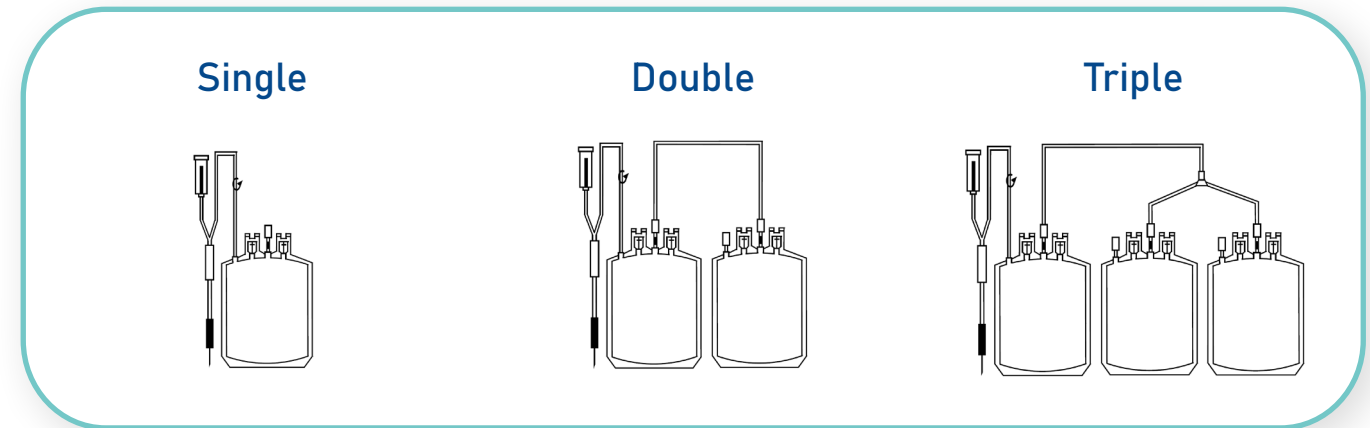
PRACTICALY

Ergonomic design combined with intuitive and easy to use controls. Optimum height for loading. Smooth, easy to clean surfaces and stainless steel bowl. Light coloured rotor makes it easy to spot any blood spillages. One person can move the centrifuge without adjusting the anchor feet by simply using a pallet truck. Four large nylon castors make moving the centrifuge easy, even on slightly uneven ground. Name each program with alphanumeric characters.

BLOOD BAG ADAPTOR, AND BOTTLES



Type of blood bag/ container	Single	Double	Triple	Quadruple	Quintuple	Sextuple
Maximum rotor capacity	12	12	12	12	12	12
Adaptor part number	43255-002	43255-001	43255-001	43255-000	43255-000	43255-000
Colour/ description	Yellow	Red	Red	Blue	Blue	Blue
Maximum speed	4 200 rpm	4 200 rpm	4 200 rpm	4 200 rpm	4 200 rpm	4 200 rpm
Maximum RCF	6 093 x g	6 093 x g	6 093 x g	6 093 x g	6 093 x g	6 093 x g





QUALITY SEPARATION. EVERY TIME

Spin single, double, triple, quadruple, quintuple and sextuple bags and get optimum results, every time.

FAST, QUIET AND PRECISE

Capable of speeds up to 4 200 rpm (6 093 x g). When at full speed, the Blue Force 12L R is considerably quieter than its nearest competitor and still maintains temperature control to within $\pm 2^{\circ}\text{C}$.

LARGE STABLE FEET AND NYLON CASTORS

Standard castors do not grip a glossy lab floor very well and they usually get caught on little ridges and joins in the flooring. That's why the Blue Force 12L R uses two large multi-directional, nylon castors, making it easier to move when relocating. The feet have a wide range of height adjustment to compensate for unevenness in the floor.

ERGONOMIC DESIGN

With the control panel located at the front of the instrument, the user can effortlessly operate the centrifuge and minimise musculoskeletal strain.

TOUCH SCREEN TECHNOLOGY

Our full colour, easy-to-use touch screen interface can be used with or without surgical gloves.

TOMORROW'S TECHNOLOGY, TODAY

Using the latest Programmable Logic Controller (PLC) technology means obsolete electronic spare parts become a thing of the past. Any future changes can be made by simply updating the software program of your centrifuge.

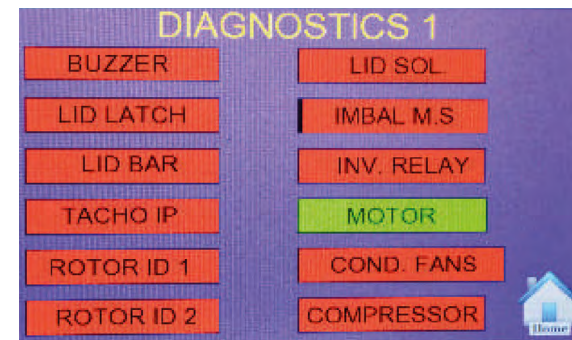
EASY TO MANOEUVRE AND RELOCATE

With its large castor, moving the machine is easy, even on rough surface. To use a pallet truck, you do not need to raise your anchor feet which is time saving !



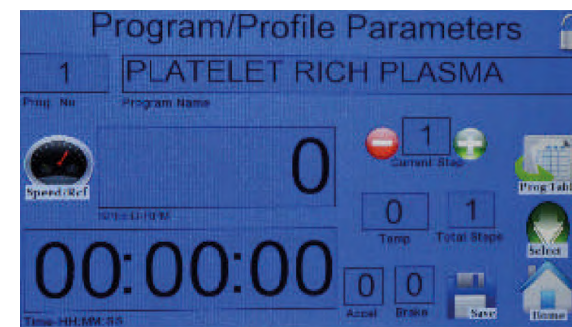


The Blue Force 12L R centrifuge has been developed in partnership with Omron Industrial Automation, a worldwide leader in the manufacture of technologically advanced industrial automation products and resistive touch screen technology



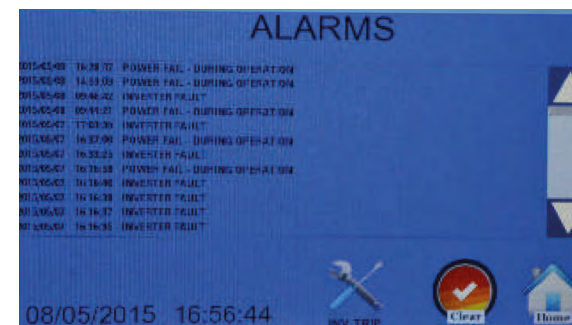
The Blue Force 12L R uses the latest Programmable Logic Controller (PLC) technology in conjunction with a user friendly touch screen.

A service engineer can access a vast range of diagnostics within the touch screen interface and perform specific tests on individual parts of the centrifuge; all of which can be carried out without even having to open up the unit.



Detailed individual programs can be set up by the laboratory manager and locked to avoid other users tampering with the parameters.

Programs can be password protected and named with alphanumeric characters.



A comprehensive log of any alarms are automatically stored within the system. The date, time and nature of the alarm are also listed. This helps any service engineer better understand how the centrifuge has been used and indicates any persistent errors that may be occurring.

Understanding the fault history also helps the service engineer swiftly resolve any technical issues.

Height (mm)	1 250
Weight (mm)	810
Depth (mm)	980
Weight (kg)	390 kg
Maximum capacity	6 x 2 000 ml
Maximum speed	4 200 rpm
Maximum RCF	6 093 x g
Timer	1 second to 99 hours , 59 minutes or continuous
Noise output	53 dB
Power supply	360V-415V, 32 Amp, 3 phase + N, 50/60Hz
Number of acceleration/brake rates	10
Number of programs	10 x 10 steps
Display	180mm wide resistive HMI
Motor	Brushless induction drive
Control	Programmable Logic Controller
Safety features	chamber guard ring, motor overheat, over speed protection
Selectable temperature range	-20°C to +40°C
Temperature control range	0°C to +40°C
Catalogue number	MSF120.CR2.KG



All MSE centrifuges comply with the latest European safety and environmental standards.

Our ISO 9001 and ISO 13485 are testament to the quality of our products and our commitment to continually improve them.

Our centrifuges are also fully RoHS compliant.

