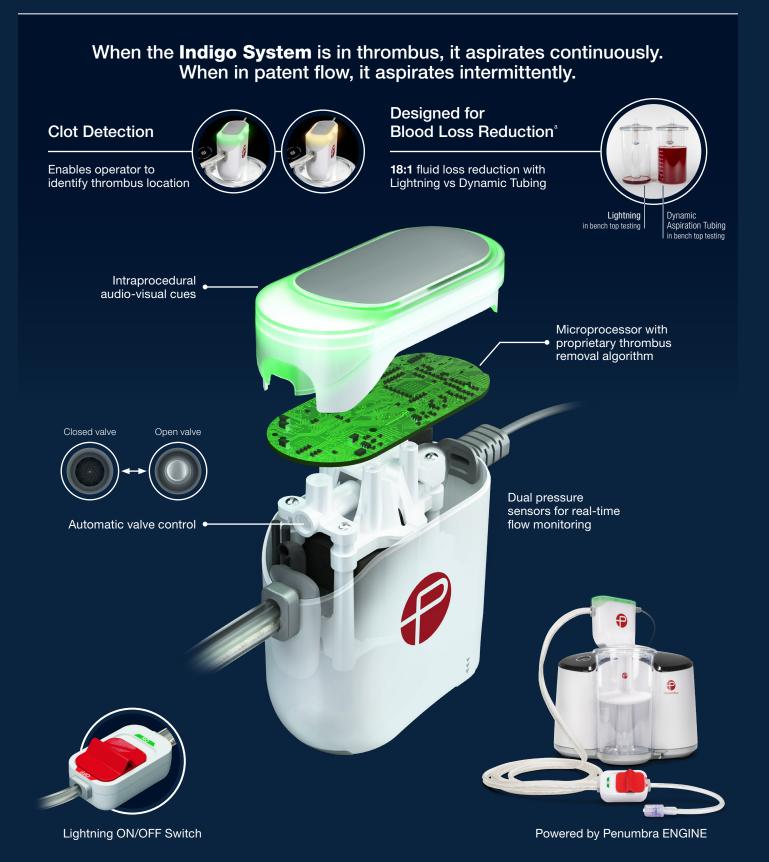
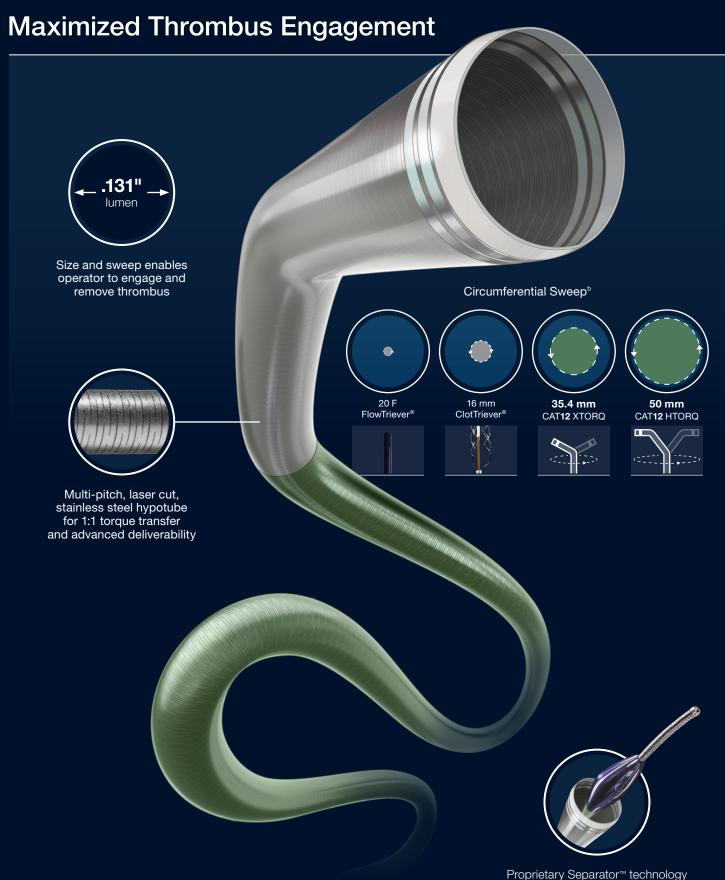




LightningIntelligent Aspiration



CAT12



Ordering Information

Indigo® System Lightning™ Kits							
Catalog Number	Description	Proximal OD	Distal OD	Compatibility	Working Length (cm)	Wire Platform (in.)	Compatible Penumbra Devices
LITNG12HTORQ115 - Now!	Indigo 12 HTORQ Tip + Lightning Aspiration Tubing	12F	12 F	12 F Sheath	115	.014–.038	Separator [™] 12
LITNG12HTORQ100 – Now!	Indigo 12 HTORQ Tip + Lightning Aspiration Tubing	12F	12F	12 F Sheath	100	.014–.038	Separator 12
LITNG12XTORQ100 – Now!	Indigo 12 XTORQ Tip + Lightning Aspiration Tubing	12F	12F	12 F Sheath	100	.014–.038	Separator 12
LITNG8XTORQ115 - Now!	Indigo 8 XTORQ Tip + Lightning Aspiration Tubing	8F	8 F	8 F Sheath	115	.014–.038	Separator 8

Indigo Separators						
Catalog Number	Description	Distal OD (in.)	Total Length (cm)	Compatible Penumbra Devices		
SEP12 - Now!	Separator 12	.110	150	CAT™ 12		
SEP8	Separator 8	.072	150	CAT8		

Accessories					
Catalog Number	Description	Compatible Penumbra Devices			
PMXENGN	Penumbra ENGINE™	Penumbra ENGINE Canister			
IAPS3	Penumbra ENGINE Canister	Penumbra ENGINE			

INDIGO Aspiration System CAT12 - Indication for Use

INDIGO Aspiration System CAT12 – Indication for Use
INDIGO Aspiration Catheters and Separators: As part of the INDIGO Aspiration System, the INDIGO Aspiration
Catheters and Separators are indicated for the removal of fresh, soft emboli and thrombif from vessels of the peripheral
arterial and venous systems. INDIGO Aspiration Tubing: As part of the INDIGO Aspiration or Systems. INDIGO Servile
Aspiration Tubing is indicated to connect the INDIGO Aspiration Catheters to the Penumbra Aspiration Pump. Penumbra
Aspiration Pump: The Penumbra Aspiration Pump is indicated as a vacuum source for Penumbra Aspiration Pump. Penumbra
Aspiration Fump: The Penumbra Aspiration Pump is indicated as a vacuum source for Penumbra Aspiration Pump. Penumbra
Aspiration Pump: The Penumbra Aspiration Pump is indicated as a vacuum source for Penumbra Aspiration Systems
Contraindications Not for use in the creatment of pulmonary embolism (PE) has not been established. Complications from the
use of this device for use in the treatment of pulmonary embolism (PE) has not been established. Complications from the
use of this device in this manner could lead to death, permanent impairment, and/or the need for emergency medical
intervention. *The INDIGO Aspiration System should only be used by physicians who have received appropriate training
in Interventional techniques. *Do not of use of use any component of the INDIGO System training
in Indemanded to the device or vessel. *Do not use the INDIGO Aspiration System with a pump other than the Penumbra
Aspiration Pump. Precautions *The device is intended for single use only. Do not resterilize or reuse. Resterilization
and/or reuse may result in ineffective catheter coating lubrication, which may result in high friction and the inability to
access the target vasculature location. *Do not use kinked or damaged devices. Do not use open or damaged packages.
Return all damaged devices and packaging to the manufacturer/distributor. *Use prior to the *Use By" date. *Use the
INDIGO Aspiration System in c

LIGHTNING Aspiration Tubing – Indication for Use

LIGHTNING Aspiration Tubing - Indication for Use INDIGO Aspiration Tubing: As part of the INDIGO Aspiration System, the INDIGO Sterile Aspiration Tubing is indicated to connect the INDIGO Aspiration Catheters to the Penumbra Aspiration Pump, Contraindications There are no known contraindications. Warnings • Do not use the INDIGO Aspiration System with a pump other than a Penumbra Aspiration Pump, - Use of LIGHTNING Aspiration Tubing adjacent to other equipment should be avoided because it could result in improper operation. If such use is necessary, LIGHTNING Aspiration Tubing and the other equipment should be observed to verify that they are functioning properly. • Portable RF communications equipment (including peripherals such as an enna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of LIGHTNING Aspiration Tubing. Otherwise, this could result in degradation of the performance of this equipment. Precautions • The device is intended for single use only. Do not resterilize or reuse. • Do not use kinked or damaged packages. Peturn all damaged devices and packaging to the manufacturer/distributor. Use prior to the "Use By" date. • When performing aspiration, ensure that the INDIGO Aspiration Tubing is open for only the minimum time needed to remove the thrombus. Excessive aspiration or failure to close the INDIGO Aspiration Tubing when aspiration is complete is not recommended. • Do not use in the presence of all fammable anesthetic mixture with air or nitrous oxide. needed to remove the thrombus. Excessive aspiration or failure to close the INDIGU Aspiration lubing when aspiration is complete is not recommended. • Do not use in the presence of a flammable anesthetic mixture with air or nitrous oxide. • Do not use in oxygen rich environment. Potential Adverse Events Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media; acute occlusion; air embolism; arrhythmia/fibrilation; arteriovenous fistual, death; device malfunction; distal embolization; emergent surgery; false aneurysm formation; hematoma, hemorrhage, or blood loss at access site; hematoma, hemorrhage, or blood loss; hypotension; inability to completely remove thrombus or control blood flow; infection, ischemia, kidney damage from contrast media; myocardial infarction; neurological deficits including stroke; respiratory failure; thromboembolic events; vascular complications (including vessel spasm, thrombosis, intimal disruption, dissection, or perforation).

INDIGO Aspiration System with LIGHTNING Aspiration Tubing – Indication for Use

INDIGO Aspiration System with LIGHTNING Aspiration Tubing – Indication for Use INDIGO Aspiration Catheters and Separators: As part of the INDIGO Aspiration Catheters and Separators are indicated for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems, and for the treatment of pulmonary embolism. INDIGO Aspiration Tubing: As part of the INDIGO Aspiration System, the INDIGO Sterile Aspiration Tubing is indicated to connect the INDIGO Aspiration Catheters to the Penumbra Aspiration Pump: Penumbra Aspiration Pump: Penumbra Aspiration Pump: Stema Penumbra Aspiration Pump as our source for Penumbra Aspiration Systems. Contraindications There are no known contraindications.

Warnings • Do not use the INDIGO Aspiration System with a pump other than a Penumbra Aspiration Pump. • Use of LIGHTNING Aspiration Tubing adjacent to other equipment should be avoided because it could result in improper operation. If such use is necessary, LIGHTNING Aspiration Tubing and the other equipment should be observed to verify that they are functioning properly. • Portable IFs communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of LIGHTNING Aspiration Tubing. Otherwise, this could result in degradation of the performance of this equipment. Precautions • The device is intended

Caution: Federal (USA) law restricts these devices to sale by or on the order of a physician. Prior to use, please refer to the Instructions for Use for complete product indications, contraindications, warnings, precautions, potential adverse events, and detailed instructions for use. Tests performed and data on file at Penumbra, inc. Bench test results may not be indicative of clinical performance. Renderings for illustrative purposes only. Photographs taken by and on file at Penumbra, Inc. Please contact your local Penumbra representative for more

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for single use only. Do not resterilize or reuse. • Do not use kinked or damaged devices. Do not use open or damaged packages. Return all damaged devices and packaging to the manufacturer/distributor. • Use prior to the "Use By" date. • When performing aspiration, ensure that the INDIGO Aspiration Tubing is open for only the minimum time needed to remove the thrombus. Excessive aspiration or failure to close the INDIGO Aspiration Tubing when aspiration is complete remove the firthforms. Expessive aspiration or aliance to close the INDIGO Aspiration futing when aspiration is complete is not recommended. • Do not use in the presence of a flammable anesthetic mixture with air or intruso soxide. • Do not use in oxygen rich environment. Potential Adverse Events Possible complications include, but are not limited to, the following, allergic reaction and anaphylaxis from contrast media; acute occlusion, air embolism; arrhythria/libritation arteriovenous fistula, death, device malfunction, distal embolization; emergent surgery; false aneurosi of malfunction, thematoma, hemorrhage, or blood loss at access site; hematoma, hemorrhage, or blood loss; hypotension inability to completely remove thrombus or control blood flow; infection; ischemia; kidney damage from contrast media; myocardia infarction; neurological deficits including stroke; respiratory failure; thromboembolic events; vascular complications (including usees) assem thombosis infinal disruption, dissection, or reforation). (including vessel spasm, thrombosis, intimal disruption, dissection, or perforation

INDIGO Aspiration System – Indication for Use

INDIGO Aspiration System – Indication for Use
INDIGO Aspiration Catheters and Separators: As part of the INDIGO Aspiration System, the INDIGO Aspiration
Catheters and Separators are indicated for the removal of fresh, soft embeli and thrombi from vessels of the peripheral
arterial and venous systems, and for the treatment of pulmonary embolism. INDIGO Aspiration Tubing: As part of the
INDIGO Aspiration System, the INDIGO Sterile Aspiration Tubing is indicated to connect the INDIGO Aspiration Catheters
to the Penumbra Aspiration Pump. Penumbra Aspiration Pump: The Penumbra Aspiration Pump is indicated as a vacuum source for Penumbra Aspiration Systems sould only be used by physicians who have received appropriate training
in interventional techniques. • Do not advance, retract or use any component of the INDIGO System against resistance
without careful assessment of the cause using fluoroscopy. If the cause cannot be determined, withdraw the device or
system as a unit. Unrestrained torquing or forced insertion of the catheter or SEPARATOR against resistance may result
in damage to the device or vessel. • Do not use the INDIGO Aspiration System with a pump other than the Penumbra
Aspiration Pump. • Placing guidewire too distal in the pulmonary vasculature or excessive manipulation of apparation,
Precautions • The device is intended for single use only. Do not resterilize or reuse. • Do not use she lead to the device or use of the manufacturer/
distributor. • Use prior to the "Use By" date. • Use the INDIGO Aspiration System in conjunction with filthosocopic
visualization. • Maintain a constant infusion of appropriate flush solution. • When eperforming aspiration is the the INDIGO Aspiration Tubing is open for only the minimum time needed to remove thrombus. Excessive aspiration of failure
to close the INDIGO Aspiration Tubing when aspiration is complete is not recommended. • Hemoglobin and hematocit
evels should be monitored in patients with > 700 mL blood loss from the clot aspiration procedure. • The INDIGO
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PENUMBRA ENGINE - Indication for Use

PENUMBRA ENGINE - Indication for Use

The PENUMBRA ENGINE is indicated as a vacuum source for Penumbra Aspiration Systems. Contraindications There
are no contraindications. Warnings/Precautions • The canister is intended for single use only. Do not reuse. Reuse
may result in canister cracking or vacuum filter blockages, which may result in the inability to aspirate. • Do not block
bottom air vents. Unit may overheat and shuf off or fail to restart if run for extended periods of time without airlow, • To
avoid the risk of electrical shock, this equipment must only be connected to a supply mains with protective earth. • Do
not position the PENUMBRA ENGINE so that it is difficult to remove the power cord. The means of mains disconnect is
to remove the power cord. • Only use replacement fuse with correct rating (see Table 1 for fuse rating). • Remove and
service the PENUMBRA ENGINE if liquids or solids have been drawn into the PENUMBRA ENGINE. • Do not use in the
presence of a flammable anesthetic mixture with air or nitrous oxide. • Do not use in an oxygen rich environment, • To
prevent fire or shock hazard, use a replacement power cord of equal rating. • Do not re-infuse blood or fluid from the
canister back into the patient. • Do not use petroleum based compounds, acids, caustics, or choirnated solvents to
clean or lubricate any parts. It will reduce the service life of the PENUMBRA ENGINE. Use only water-based solvents
for cleaning. • Use of this equipment adjacent to or stacked with other equipment should be observed to
verify that they are operating normally. • Portable RF communications equipment (including peripherals such as antenna
cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of the PENUMBRA ENGINE.

Otherwise, this could result in degradation of the performance of this equipment. • Common emitters (such as RFID)
emitters, security systems, diathermy equipment, and portable transmitters) should not be used in close proximity to the
PENUMBRA ENGINE as they can i



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