Catalog Number	Description	Proximal OD (F) (in.) (mm)	Distal OD (mm)	Proximal ID (in.) (mm)	Distal ID (in.) (mm)	Working Length (cm)
Penumbra System						
ASPIRATION KITS						
RED72KIT	RED 72 Reperfusion Catheter + Penumbra Aspiration Tubing	6 (.085) (2.16)	2.16	.072 (1.83)	.072 (1.83)	132
RED68KIT	RED 68 Reperfusion Catheter + Penumbra Aspiration Tubing	6 (.084) (2.13)	2.13	.068 (1.73)	.068 (1.73)	132
RED62SKIT	RED 62 Reperfusion Catheter + Penumbra Aspiration Tubing	6 (.076) (1.93)	1.93	.062 (1.57)	.062 (1.57)	138
REPERFUSION CATHETERS						
RED72	RED 72 Reperfusion Catheter	6 (.085) (2.16)	2.16	.072 (1.83)	.072 (1.83)	132
RED68	RED 68 Reperfusion Catheter	6 (.084) (2.13)	2.13	.068 (1.73)	.068 (1.73)	132
RED62S	RED 62 Reperfusion Catheter	6 (.076) (1.93)	1.93	.062 (1.57)	.062 (1.57)	138
3MAXC	3MAX™ Reperfusion Catheter	4.7 (.062) (1.57)	1.27	.043 (1.09)	.035 (.89)	160
REVASCULARISATION DEVICE		Diameter	Device Length	Working Length		
PSR3D	3D Revascularization Device™	4.5 mm	26 mm	20 mm		
DELIVERY MICROCATHETER						
VEL160STR	Velocity™ Microcatheter	2.95 (.0387) (.983)	.867	.025 (.635)	.025 (.635)	160
ASPIRATION ACCESSORIES						
PMXENGN	Penumbra ENGINE™					
PAPS3	Penumbra ENGINE Canister					

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.

PENUMBRA SYSTEM – Intended Use
The PENUMBRA SYSTEM is intended to remove thrombus and restore blood flow in the neurovasculature using aspiration.

Potential Adverse Events
Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media or device material; acute vessel occlusion; air embolism; arteriovenous fistula; death; foreign body embolization; emboli; pseudoaneurysm; hematoma or hemorrhage at access site; residual thrombus due to inability to completely remove thrombus; infection; inflammation; intracranial hemorrhage; ischemia; renal impairment or acute renal failure from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; radiation exposure that may lead to cataracts, skin reddening, burns, alopecia, or neoplasia from x-ray exposure.

PENUMBRA SYSTEM – Intended Use
The PENUMBRA SYSTEM is intended for use in the revascularization of patients with acute ischemic stroke secondary to intracranial large vessel occlusive disease using continuous aspiration.

Potential Adverse Events
Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media; acute occlusion; air embolism; arteriovenous fistula; death; device malfunction; distal embolization; emboli; false aneurysm formation; hematoma or hemorrhage at access site; inability to completely remove thrombus; infection; intracranial hemorrhage; ischemia; kidney damage from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; radiation exposure that may lead to cataracts, skin reddening or burns from x-ray exposure.

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.

PENUMBRA SYSTEM – Intended Use
The PENUMBRA SYSTEM is intended for use in the revascularization of patients with acute ischemic stroke secondary to intracranial large vessel occlusive disease using continuous aspiration.

Potential Adverse Events
Possible complications include, but are not limited to, the following: allergic reaction and anaphylaxis from contrast media; acute occlusion; air embolism; arteriovenous fistula; death; device malfunction; distal embolization; emboli; false aneurysm formation; hematoma or hemorrhage at access site; inability to completely remove thrombus; infection; intracranial hemorrhage; ischemia; kidney damage from contrast media; neurological deficits including stroke; vessel spasm, thrombosis, dissection, or perforation; radiation exposure that may lead to cataracts, skin reddening, burns, alopecia, or neoplasia from x-ray exposure.

PENUMBRA ENGINE – Intended Use
The PENUMBRA ENGINE is intended as a vacuum source for Penumbra Aspiration Systems.

Penumbra Delivery Microcatheters – Intended Use
The Penumbra Delivery Microcatheters are intended to assist in the delivery of diagnostic agents, such as contrast media, and therapeutic agents, such as occlusion coils to the peripheral and neuro vasculature.

Potential Adverse Events
Possible complications include, but are not limited to, the following: acute occlusion; hematoma or hemorrhage at access site; death; intracranial hemorrhage; hemorrhage; infection (at access site); distal embolization; ischemia (cardiac and/or cerebral); embolus (air, foreign body, thrombus, plaque); aneurysm perforation; false aneurysm formation; neurological deficits including stroke; vessel spasm, thrombosis, dissection, perforation or rupture; air embolism; emboli.

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Product availability varies by country. Please contact your local Penumbra representative for more information.

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