



PLUSS[®]

TECHNOLOGY FOR
A BETTER WORLD

**Thermal
Energy Solution**

**Increase Heat
Storage Capacity**

Stainless Steel PCM Balls

**Increase the Thermal Storage Capacity of
Buffer tanks**

STAINLESS STEEL BALLS

PCM	Encapsulation (SS-304 Ball)	Weight of PCM/ball (g)	Latent Heat KJ/ball	Energy Wh/ball	balls per m ³	KWH per m ³
save [®] HS48	63 mm	150	31,65	8,79	3995	35
save [®] HS48	80 mm	360	75,96	21,10	1900	40
save [®] HS48	100 mm	660	139,26	38,68	1000	39
save [®] HS58	63 mm	145	38,715	10,75	3995	43
save [®] HS58	80 mm	350	93,45	25,96	1900	49
save [®] HS58	100 mm	635	169,545	47,10	1000	47





How it Works

The Stainless Steel PCM Balls are filled with a PCM corresponding to the optimum operating temperature based on the clients specifications.

Stainless steel balls are placed inside the buffer vessel and the rest of the space is filled with water. Hot water from a heat-pump, solar collector or waste heat will melt the PCM in the balls at the Phase Change Temperature; storing Latent Heat.

This latent heat in the balls can be 4 times higher than (sensible) heat stored in water alone. When heat is extracted from the buffer and the water temperature drops, the PCM will give the heat back to the water and in the process solidify "freeze" again.

Why Pluss Advanced Technologies

PLUSS is a **materials research** and **manufacturing** company involved in the field of **Phase Change Materials (PCMs)** for **thermal energy storage**.

A **sustainable** concept with endless **energy-saving applications**.



Your partner in PCM supply



European warehousing and encapsulating in the Netherlands



Custom solutions for special needs by strong research and development



15+ years of experience

Pluss Advanced Technologies B.V.

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