

ENGINEERED FOR PERFORMANCE





Forge Twintercooler

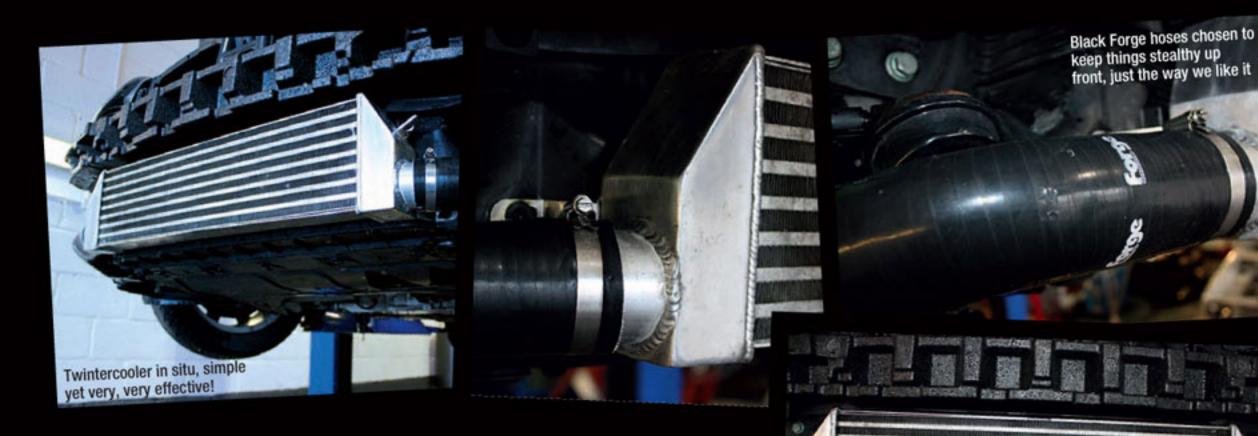
David Kennedy

I think it's safe to assume that if you have been reading PVW for a while now, you'll have a pretty good idea of what intercoolers do on turbocharged cars. Put simply, an intercooler's job is to cool the air as it passes between the turbo and the engine. When the turbocharger compresses the air, it condenses it and, when compressed, air heats up. And as we all know, hot air isn't the best thing for efficient combustion.

It's the reason your car might feel a little

slower on scorching hot days and why people always talk about cars performing better on colder days. So, by cooling the air back down after it leaves the turbo, it becomes denser, meaning you can get more of it into a set space. The result of this is that more air can go in to the cylinder at each piston cycle and, when mixed with the correct amount of fuel, will yield more power. I know, it's probably quite clear by now that I didn't pay much attention in my physics lessons at school but, well, those are the basics. So with that in mind, it stands to reason that the more efficiently your intercooler setup performs, the more efficiently your engine can work. After all, as with most things, an engine is only as strong as the weakest link in the chain. It doesn't matter if you've got the biggest turbo in the world bolted on out back, if it's pumping boiling hot air into the combustion process, at best it won't work too well and, at worst, it won't last long at all.





"In testing Forge found that the twin-core design saw greater efficiency throughout the rev range from top to bottom, while specially designed end tanks saw increased flow rate"

not only saw an increase in power and torque but a huge reduction in inlet temperature up to 20 degrees Fahrenheit, from 102 to 82 at 6600rpm on a standard car, but increased flow efficiency too. You'd be forgiven for thinking that with all that going on, fitting it to the car would be a nightmare involving cutting bumpers, fabricating brackets and general headaches;

but as is always the case with Forge products, things couldn't have gone smoother. Designed to be a true, bolt-on kit, fitting the Twintercooler is about as simple a job as they come. And with all the relevant hoses and mounting hardware supplied in the box, hooking it up was about as drama-free as you can get.

And as I spec'd my Twintercooler to come

without any Forge branding on the front and with black hoses, it really is a stealthy-looking bit of kit. But, of course, it can't just look the part, it's got to do the job too. And well, it goes without saying that it does this just perfectly. Without going all Ronseal on you, the Forge Twintercooler does exactly what it says on the tin and really, what more could you ask for than that?

