Clean Easy

It was January 1969 when Keith Monks launched his legendary record cleaning machine. It went on to become the most respected device of its type. Now, exactly forty years later, comes the brand new Omni from a revitalised company run by his son Jonathon. David Price scrubs up...

think this machine is a very important product. Lest we forget, vinyl is no longer made in serious quantities, forcing analogue addicts to buy ever more second-hand discs. As used black plastic becomes ever more popular, then so prices creep slowly up - or in some instances, not so slowly! The temptation then is to buy cheaper vinyl and put up with the snap, crackle and pop. Well, if you've got one of these, the chances are good that you can restore even 50p charity shop records to better than new condition.

Of course, if the surfaces are scratched or worn, even a Keith Monks machine won't help, but given a decent basic disc, this gizmo can work wonders. Moreover, it doesn't just clean the surface, but does a 'deep clean' in the groove(s), removing some of the gunk that's been stuck in there since the day it came off the press. The result is that the record can (and often does) actually sound better than new...

Of course, as they say, "other record cleaners are available", but the Keith Monks was always the one that serious record collectors recommended – and record libraries of august broadcast organisations such as the BBC used. A serious record cleaner such as this, therefore, 'unlocks' all those dog-eared old LPs and singles in your local second-hand shop – making them bargains to be had that most other buyers wouldn't consider so much as useable. In truth,

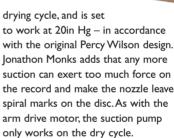
it is an essential accessory for truly serious collectors and (because it doesn't just clean, it removes the residue from the presses) audiophiles alike.

DESIGN

Although working the Keith Monks is quite simple and relatively foolproof, the machine itself is quite a complex piece of good old fashioned mechanical engineering. It has a number of subsystems, all of which have to work together – a bit like a great big Meccano project. Built with professional broadcast organisations in mind, it gives the impression that it's built to last, and feel almost over-engineered for domestic use.

The heart of the machine is the turntable motor, which is a heavy duty direct drive affair designed for continuous operation. This drives the platter, on top of which is a special new design of mat made of rubber, and triangulated so any excess cleaning fluid lying on is going to drain into the mat's recesses while the points of the hundreds of small rubber triangles support the record itself without getting it wet.

This main motor is used to spin the record on both wash and dry cycles, but there's another, smaller motor which works on the dry cycle only, driving the suction arm via a small thick flat section belt, pulling it from the inside 'run out' groove out to the outside 'lead in' groove as it sucks up the fluid. Working in conjunction the arm drive is what Jonathon Monks calls, "probably the biggest, coolest, quietest vacuum pump in the industry". It's a German made medical grade design, used for kidney dialysis machines, and so is used to continuous operation. This sucks the fluid up from arm on the



The final part of the equation is the wash pump. Although the cute little retro-styled knob is the only thing visible to the machine's user, underneath lies the same compact hand pump used in the classic Mini motor car, before it went to an electric device in the early nineteen seventies! Actually, although it's manual, it works effectively and is all that is needed to do the job of wetting the bristles of the fine artist's brush hair cleaning block.

Just like a car bonnet, the top of the Keith Monks machine pulls up and rests on a stay. Performing this relatively simple operation (with the aid of the chromed handle in the middle of the fascia) exposes the innards of the machine, showing the various pumps and motors in all their glory, along with the bobbin that holds the thread that runs, one quarter inch per operation, past the tip of the suction arm. You also get easy access to the fluid jars; one to supply the special cleaning fluid, the other to collect the dirty stuff that comes off the disc via the suction arm.



HISTORY

Technical editor of *Gramophone* magazine Percy Wilson introduced the original concept of record cleaning in his book, 'The Gramophone Handbook' (Methuen, 1957), in which he suggested applying a mixture of lubricating oil and vinegar followed by washing in soapy water, rinsing with tap water, drying with a flannel, treating with antistatic liguid and running through with a Dust **Bug. Percy famously proclaimed** that although, "rather tiresome, (it) should prove effective"!

Eight years later, his ideas were developed in a paper for the Audio **Engineering Society. At the same** time, Frank Ockenden, John Wright and Mike Beville formed a company called Audio & Design to put their ideas into practice. The 'Record Doctor' employed four different devices to clean the record - a liquid applicator, groove scrubber, 'suction mop' and spinning brush - was huge and over complex, both to manufacture and use. But it was effectively the predecessor to what became the Keith Monks Record Cleaning Machine, as its creators then approached Percy to work on a prototype with them. Extensive work followed, and finally in 1968 one Keith Monks was taken on to market the device. Five pre-production units were built, and the team prepared to concentrate their efforts on the biggest prize in European broadcasting: the BBC, who were rolling out stations broadcasting in stereo on the VHF (FM) band. The quality of the medium demanded new heights in record care - so the time was right for the RCM. But just before they met the Beeb, the bank withdrew their support and the company went bankrupt.

Keith went ahead with the meeting anyway, and came away with a letter of intent for three machines. He duly bought the rights from the liquidators, Keith striking it lucky with his bank manager who turned out to be a hi-fi enthusiast. The first of many orders went through, and by the eighties the RCM was in use at most major radio stations worldwide. In 1977, a special silver Record Cleaning Machine was even presented to the Queen for her Silver Jubilee, with Keith summoned to Buckingham Palace to demonstrate it!

Keith's death in 2005 effectively saw the end of the machine, but last year his son Jonathon gently reworked the design, substituting key parts for improved quality. With a new factory, it is now on sale again in the UK.

OPERATION

The machine works in two cycles - wash and dry. The wash cycle uses a special applicator brush to apply the special Keith Monks fluid whilst the record is spinning at 80RPM. Cleaning is a case of placing a record on the platter, flipping the right fascia mounted switch upward for 'Wash', moving the applicator brush over the record on its swing arm, and then wetting it - then the record - with the fluid. This is done by depressing the pump knob on the left, which sends fluid to the brush's bristles, which duly runs down uniformly to the disc, covering it evenly. Press down on the surface of the record with the brush, then lift off, then press down again for a few seconds, and the first part of the operation is complete; time taken ten seconds.

- You then have your record surface soaked in fluid - so it's time to dry it. Flip the switch to dry, and then you can move the suction arm across to the inner, label part of the record. It duly moves across the surface, slowly sucking off all the fluid, depositing it in a storage jar inside. This takes another twenty or so seconds, and then it's time to repeat the process with the record's other side. This done, you should really put the record in a brand new, polythene lined inner sleeve - replacing it in the original inner will simply move a good deal of the dirt back on to the surface of the disc.
- It works almost faultlessly; even a novice will be cleaning their prized vinyl fairly quickly after a set up procedure akin to a turntable - this is detailed in a comprehensive instruction booklet. My only issue was the process of applying the fluid by the hand pump in the wash cycle; until I got the hang of it I found it a bit too much 'all or nothing'. One moment you haven't put enough fluid into the brush and the disc surface isn't properly wet, the next you've put too much on and it's sending surplus fluid all over the shop! Still, a few sessions have you doing it right - after which you can get professional results, time after time. The great thing is how unfazed this machine is about the condition of the disc; you can give it really nasty discs which then come out completely clean - basically, no job is too big for the Keith Monks. In also works the same, again and again, with no varying in performance, which shows its professional provenance.

SOUND QUALITY

Obviously, this machine cannot magically remove MOULD RELEASE AGENT scratches, inner groove When records are mass wear or warps, but it still dramatically cuts noise on previously unplayable discs. On dirty discs it restores near silent surfaces, and on clean discs, it gives inky-black silence where once was a slight crackle. It removes scunge, static and mould release agent (MRA) - bringing a striking improvement in sound to dirty discs and even brand new, unplayed discs sounded better thanks to its MRA removal. Subjectively, this translates to a deep, more powerful and tuneful bass - this wasn't just my imagination, as I heard it on every disc I tried. There's also a cleaner midband, more low level detail and a wider. more open treble with extra air. This can result in a slightly brighter, less muffled sound - the machine removes some of the fluffy, opaque, sheen of the disc making things sound better focused and more open. I even noticed a slight improvement in the ability of the LP to image 'out of the speakers', but most obvious to me was that more musical, tuneful and deeper bass.

CONCLUSION

Keith Monks machines start at £1,995, which is an awful lot of money to spend on a record cleaner. Obviously then, considerations of value depend on how large your disc collection is and how great your commitment to the vinyl format is. The £2,995 asked for by the Omni, which adds the ability to clean 7" and 10" discs, including shellac, focuses the mind all the more. Obviously most Keith Monks record cleaning machines will sell to record libraries and broadcasting organisations, but I can see that some - admittedly well heeled - domestic audiophiles buying one too. Surprising as it may sound, it improves the performance of brand new, unplayed discs as well as making distressed records playable once more. As such, analogue addicts will all find it a very nice thing to have.



produced, a lubricant is applied to ease the discs out of the presses. This is a waxy oily substance, some of which sticks inside the record groove. It has a relatively benign effect, but does cause a sound, effectively reducing the stylus's ability to accurately trace the groove The Keith Monks RCM uses special fluid which gets right into the groove - made entirely from botanicals and other plant extracts with pure distilled water – which removes much of the MRA, and the benefits of this are clearly audible even when clean-ing a brand new record.

VERDICT @@@@@

Superbly made, cleverly designed and extremely effective record cleaning machine - but not inexpensive.

KEITH MONKS RCM OMNI MK. VII **Keith Monks Audio Works** www.keithmonks-rcm.co.uk

FOR

- rugged build
- ease of use
- highly effective

AGAINST

- needs some set-up
- price
- bulky